Applied Science & Technology Index

1959

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A I Ch E J—Journal of Chemical Engine...
A M A Archives Ind of Industrial Health
ARS J—ARS Journal
ASHRAE J—ASHRA...
A S M E Trans—T... ican Society of M...
A S T M Bul—Bullet... for Testing Materia...
Aero/Space Eng—Ae...
Air Cond Heat & Ve... ing and Ventilating
Aircraft Eng—Aircra...
Am Assn Pet Geolo... American Associati...
Am Cer Soc Bul—... Ceramic Society
Am Cer Soc J—Jou... ramic Society
Am Chem Soc J—... Chemical Society
Am Concrete Inst J... Concrete Institute
Am Dyestuff Rep—A...
Am Gas Assn Mo— Monthly
Am Inst Chem Eng ...
Am J Clinical Nutrition—American Journal of Clinical Nutrition
Am J Phys—American Journal of Physics
Am J Pub Health—American Journal of Public Health and the Nation's Health
Am Mach—American Machinist
Am Medical Assn Archives Ind Health. See A M A Archives Ind Health
Am Mineralogist—American Mineralogist
Am Oil Chem Soc J—Journal of the American Oil Chemists' Society
Am Perfumer & Aromatics—American Perfumer and Aromatics
Am Rocket Soc J. See ARS J
Am Scientist—American Scientist
Am Soc C E Proc—Proceedings of the American Society of Civil Engineers
Am Soc Heat Refrig & Air-Cond Eng J. See ASHRAE J
Am Soc Mech Eng Trans. See A S M E Trans
Am Soc Naval Eng J—Journal of the American Society of Naval Engineers
Am Soc T M Bul. See A S T M Bul
Am Water Works Assn J—Journal of the American Water Works Association
Anal Chem—Analytical Chemistry
Ap Hydraulics & Pneumatics—Applied Hydraulics and Pneumatics
Applications & Ind—Applications and Industry
Arch Forum—Architectural Forum. The Magazine of Building
Arch Rec—Architectural Record
Assn for Computing Mach J—Journal of the Association for Computing Machinery
Audio—Audio
Audio Eng Soc J—Journal of the Audio Engineering Society
Automation—Automation: the Magazine of Automatic Operations
Automobile Eng—Automobile Engineer
Automotive Ind—Automotive Industries

Bell Lab Rec—Bell Laboratories Record
Bell System Tech J—Bell System Technical Journal
Brit Inst Radio Eng J—Journal of the British Institution of Radio Engineers
Brit Plastics—British Plastics

...anadian Chemical Proc-
...adian Journal of Chem-
...—Canadian Mining and ...try
...emical and Engineering
...ry and Industry
...ngineering
...nical Engineering Prog-
...ering
...ommunication and Elec- ...n
...ressed Air Magazine
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...ower
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Drug & Cosmetic Ind—Drug and Cosmetic Industry

Econ Geol—Economic Geology
Elec Com—Electrical Communication
Elec Constr & Maint—Electrical Construction and Maintenance
Elec Eng—Electrical Engineering
Elec Manuf—Electrical Manufacturing
Elec World—Electrical World
Electrochem Soc J—Journal of the Electrochemical Society
Electronic & Radio Eng—Electronic and Radio Engineer
Electronic Eng—Electronic Engineering
Electronic Ind—Electronic Industries
Electronics—Electronics
Eng & Min J—Engineering and Mining Journal
Eng J—Engineering Journal
Eng N—Engineering News-Record
Engineer—Engineer
Engineering—Engineering

Food Eng—Food Engineering
Food Tech—Food Technology
Foundry—Foundry
Franklin Inst J—Journal of the Franklin Institute

Gas—Gas
Gas Age—Gas Age
Geol Soc Bul—Bulletin of the Geological Society of America
Geophysics—Geophysics
Glass Ind—Glass Industry

Heating-Piping—Heating, Piping and Air Conditioning

I S A J—ISA Journal
Illum Eng—Illuminating Engineering, The Journal of the Illuminating Engineering Society

LIST OF PERIODICALS INDEXED

Ind & Eng Chem—Industrial and Engineering Chemistry
Ind Chem—Industrial Chemist
Ind Finishing—Industrial Finishing
Ind Lab—Industrial Laboratories, The Magazine of Research and Development
Ind Med—Industrial Medicine and Surgery
Ind Phot—Industrial Photography
Ind Quality Control—Industrial Quality Control
Inland & Am Ptr & Lithogr—Inland and American Printer and Lithographer
Inst E E Proc—Proceedings of the Institution of Electrical Engineers
Inst Mech Eng Proc—Proceedings of the Institution of Mechanical Engineers
Inst Metals J—Journal of the Institute of Metals
Inst Pet J—Journal of the Institute of Petroleum
Inst Radio Eng Proc—Proceedings of the Institute of Radio Engineers
Instrument Soc Am J. See I S A J
Instruments & Automation—Instruments and Automation
Instruments & Control Systems—Instruments and Control Systems
Iron Age—Iron Age
Iron & Steel Eng—Iron and Steel Engineer
Iron & Steel Inst J—Journal of the Iron and Steel Institute

J Aero/Space Sci—Journal of the Aero/Space Sciences
J Agri & Food Chem—Journal of Agricultural and Food Chemistry
J Ap Chem—Journal of Applied Chemistry
J Ap Mech—Journal of Applied Mechanics
J Ap Phys—Journal of Applied Physics
J Basic Eng. See A S M E Trans
J Colloid Sci—Journal of Colloid Science
J Eng Ind. See A S M E Trans
J Eng Power. See A S M E Trans
J Geol—Journal of Geology
J Heat Transfer. See A S M E Trans
J Math & Phys—Journal of Mathematics and Physics
J Metals—Journal of Metals
J Nutrition—Journal of Nutrition
J Pet Tech—Journal of Petroleum Technology
J Res Nat Bur Stand—Journal of Research of the National Bureau of Standards
J Sci Instr—Journal of Scientific Instruments
Jet Propulsion—Jet Propulsion

Light Metal Age—Light Metal Age
Lub Eng—Lubrication Engineering

Mach—Machinery
Machine Design—Machine Design
Mag of Stand—Magazine of Standards
Manuf Chem—Manufacturing Chemist
Marine Eng/Log—Marine Engineering/Log
Materials in Design Eng—Materials in Design Engineering
Mech Eng—Mechanical Engineering
Metal Finishing—Metal Finishing
Metal Prog—Metal Progress
Metallurgia—Metallurgia, the British Journal of Metals
Mill & Factory—Mill & Factory
Min Cong J—Mining Congress Journal
Min Eng—Mining Engineering
Mod Materials Handling—Modern Materials Handling
Mod Metals—Modern Metals
Mod Phot—Modern Photography
Mod Plastics—Modern Plastics
Mod Textiles Mag—Modern Textiles Magazine

Noise Control—Noise Control
Nucleonics—Nucleonics

Oil & Gas J—Oil and Gas Journal
Op Res—Operations Research

Paint Oil & Chem R—Paint, Oil and Chemical Review
Paper Ind—Paper Industry
Pet Eng—Petroleum Engineer; Management Edition
Pet Refiner—Petroleum Refiner
Phys Today—Physics Today
Pit & Quarry—Pit and Quarry
Plant—Plant
Plant & Power Services Eng—Plant and Power Services Engineer
Plant Eng—Plant Engineering
Plastics Tech—Plastics Technology
Plastics World—Plastics World
Plating—Plating
Power—Power
Power Apparatus & Systems—Power Apparatus and Systems
Power Eng—Power Engineering
Power Ind—Power Industry, Including Industrial Power and Industry Power
Product Eng—Product Engineering
Prog Arch—Progressive Architecture
Pub Roads—Public Roads
Pub Works—Public Works

Q S T—QST

RCA R—RCA Review
R Sci Instr—Review of Scientific Instruments
Radio Corp Am R. See RCA R
Radio-Electronics—Radio-Electronics
Refrig Eng—Refrigerating Engineering Including Air Conditioning
Research—Research, Applied in Industry
Roads & Sts—Roads and Streets
Rock Prod—Rock Products
Roy Aeronautical Soc J—Journal of the Royal Aeronautical Society
Rubber Age—Rubber Age
Rubber Chem & Tech—Rubber Chemistry and Technology
Rubber World—Rubber World

S A E J—SAE Journal
SMPTE J—Journal of the Society of Motion Picture and Television Engineers
Safety Maint—Safety Maintenance
Sci Am—Scientific American
Sewage & Ind Wastes—Sewage and Industrial Wastes
Soap & Chem Spec—Soap and Chemical Specialties
Soc Automotive Eng J. See S A E J
Soc Dyers & Col J—Journal of the Society of Dyers and Colourists
Soc Motion Picture & Television Eng J. See SMPTE J
Space/Aeronautics—Space/Aeronautics
Steel—Steel

Tappi—Tappi
Tech Assn Pulp & Paper Ind. See Tappi
Textile Ind—Textile Industries
Textile Res J—Textile Research Journal
Textile World—Textile World
Tool Eng—Tool Engineer
Traffic Q—Traffic Quarterly

Water & Sewage Works—Water & Sewage Works
Water Works Eng—Water Works Engineering
Welding Eng—Welding Engineer
Welding J—Welding Journal
Westinghouse Eng—Westinghouse Engineer
Wire & Wire Prod—Wire and Wire Products
Wireless World—Wireless World

APPLIED SCIENCE & TECHNOLOGY INDEX

1959

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1959

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INDEXERS
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MANAGING EDITOR
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Acknowledgments

In addition to the staff members whose names appear on the title page we wish to acknowledge the contributions of the following who indexed for the 1959 volume part-time during the year: Leone Baker, Pasquale S. D'Epiro, Lenore Langsdorf, Jane C. Luhks, Mary M. Raymond.

R. P.

20 may 60

List of Periodicals Indexed

A I Ch E J—Journal of the American Institute of Chemical Engineers. $9 q American Institute of Chemical Engineers, 25 W 45th St, New York 36

A M A Archives Ind Health—A.M.A. Archives of Industrial Health. $8 m American Medical Association, 535 N Dearborn St, Chicago 10

ARS J—ARS Journal. $12.50 m American Rocket Society, Inc, and American Interplanetary Society, 500 Fifth Av, New York 36
Formerly Jet Propulsion; changed January, 1959

ASHRAE J—ASHRAE Journal. $5 m American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc, 234 Fifth Av, New York 1
Formerly Refrigerating Engineering; changed March, 1959

A S M E Trans—Transactions of the American Society of Mechanical Engineers. $10 American Society of Mechanical Engineers, 29 W 39th St, New York 18
Published in 5 parts: ser A, Journal of Engineering for Power, q (Ja); ser B, Journal of Engineering for Industry, q (F); ser C, Journal of Heat Transfer, q (F); ser D, Journal of Basic Engineering, q (Mr); ser E, Journal of Applied Mechanics, q (Mr)
$5 to members and affiliates

A S T M Bul—Bulletin of the American Society for Testing Materials. $3.50 8 times a yr American Society for Testing Materials, 1916 Race St, Philadelphia 3

Aero/Space Eng—Aero/Space Engineering. $5 m Institute of the Aeronautical Sciences, Inc, 2 E 64th St, New York 21

Air Cond Heat & Ven—Air Conditioning Heating and Ventilating. $3 m Industrial Press, 93 Worth St, New York 13

Aircraft Eng—Aircraft Engineering. 40s; U.S. $6.50; Canada $6.50 m Bunhill Publications, Ltd, 12 Bloomsbury Square, London, W.C. 1

Am Assn Pet Geologists Bul—Bulletin of the American Association of Petroleum Geologists. $18 m American Association of Petroleum Geologists, Inc, Box 979, Tulsa, 1, Okla.

Am Cer Soc Bul—Bulletin of the American Ceramic Society. $6 m American Ceramic Society, 4055 N High St, Columbus 14, Ohio

Am Cer Soc J—Journal of the American Ceramic Society; Ceramic Abstracts. $20 including Ceramic Bulletin m American Ceramic Society, 4055 N High St, Columbus 14, Ohio

Am Chem Soc J—Journal of the American Chemical Society. $30 s-m American Chemical Society, 1155 16th St, N.W, Washington 6, D.C.

Am Concrete Inst J—Journal of the American Concrete Institute. $18 m American Concrete Institute, P.O. Box 4754 Redford Station, Detroit 19, Mich.

Am Dyestuff Rep—American Dyestuff Reporter. $7.50 bi-w Howes Pub. Co, 44 E 23d St, New York 10

Am Gas Assn Mo—American Gas Association Monthly. $5 m (bi-m Jl-Ag) American Gas Assn, Inc, 420 Lexington Av, New York 17

Am Inst Chem Eng J. See A I Ch E J

Am J Clinical Nutrition—American Journal of Clinical Nutrition. $8 bi-m The American Journal of Clinical Nutrition, Inc, 11 E 36th St, New York 16

Am J Phys—American Journal of Physics. $10 m (except Je, Jl and Ag) American Institute of Physics, Inc, 335 E 45th St, New York 17

Am J Pub Health—American Journal of Public Health and the Nation's Health. $12 m American Public Health Association, Inc, 1790 Broadway, New York 19

Am Mach—American Machinist. $3 bi-w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Extra number published in Mid-September

Am Medical Assn Archives Ind Health. See A M A Archives Ind Health

Am Mineralogist—American Mineralogist. $6 bi-m U.S. Geological Survey, Washington 25, D.C.

Am Oil Chem Soc J—Journal of the American Oil Chemists' Society. $8 m American Oil Chemists' Society, 35 E Wacker Drive, Chicago 1

Am Perfumer & Aromatics—American Perfumer and Aromatics. $5 m Moore Pub. Co, Inc. 48 W 38th St, New York 18

Am Rocket Soc J. See ARS J

Am Scientist—American Scientist. $2 q Sigma Xi, 56 Hillhouse Av, New Haven 11, Conn.

Am Soc C E Proc—Proceedings of the American Society of Civil Engineers. $40 m American Society of Civil Engineers, 33 W 39th St, New York 18

Am Soc Heat Refrig & Air-Cond Eng J. See ASHRAE J

Am Soc Mech Eng Trans. See A S M E Trans

Am Soc Naval Eng J—Journal of the American Society of Naval Engineers. $12 q American Society of Naval Engineers, Inc, 1012 14th St, N.W, Washington 5, D.C.

Am Soc T M Bul. See A S T M Bul

Am Water Works Assn J—Journal of the American Water Works Association. $10 m American Water Works Assn, 2 Park Av, New York 16

Anal Chem—Analytical Chemistry. $5 m American Chemical Society, 1155 16th St, N.W, Washington 6, D.C.

Ap Hydraulics & Pneumatics—Applied Hydraulics and Pneumatics. $7 m Industrial Pub. Corp, 812 Huron Rd, Cleveland 15

Applications & Ind—Applications and Industry. $8 bi-m American Institute of Electrical Engineers, 33 W 39th St, New York 18

Arch Forum—Architectural Forum, The Magazine of Building. $6.50 m Time, Inc, 9 Rockefeller Plaza, New York 20

Arch Rec—Architectural Record. $5.50 m F. W. Dodge Corp, 119 W 40th St, New York 18
Extra number published in Mid-May

Assn for Computing Mach J—Journal of the Association for Computing Machinery. $10 q Association for Computing Machinery, 2 E 63d St, New York 21

Audio—Audio. $4 m Radio Magazines, Inc, 204 Front St, Mineola, New York

Audio Eng Soc J—Journal of the Audio Engineering Society. $8 q Audio Engineering Society, P.O. Box 12, Old Chelsea Station, New York 11

Automation—Automation; the Magazine of Automatic Manufacturing Operations. $10 m Penton Pub. Co, Penton Bldg, Cleveland 13

Automobile Eng—The Automobile Engineer. £3; U.S. $8.50; Canada $8.50 m Iliffe & sons, Ltd, Dorset House, Stamford St, London, S.E. 1

Automotive Ind—Automotive Industries. $10 s-m Chilton Co, Chestnut & 56th Sts, Philadelphia 39

Bell Lab Rec—Bell Laboratories Record. $2 m Bell Telephone Laboratories, Inc, 463 West St, New York 14

Bell System Tech J—Bell System Technical Journal. $5 bi-m American Telephone and Telegraph Co, 195 Broadway, New York 7

Brit Inst Radio Eng J—Journal of the British Institution of Radio Engineers. 80s m British Institution of Radio Engineers, 9 Bedford Square, London, W.C. 1

Brit Plastics—British Plastics. £2 12s; U.S. $7.50; Canada $7.50 m Iliffe & Sons, Ltd. Dorset House, Stamford St, London, S.E. 1

Can Chem Process—Canadian Chemical Processing. $6; U.S. $10 m Hugh C. Maclean Publications, Ltd, 1450 Don Mills Rd, Don Mills, Ontario, Canada

Can J Chem Eng—Canadian Journal of Chemical Engineering. $3; U.S. $4 bi-m Chemical Institute of Canada, 48 Rideau St, Ottawa 2, Ont.

Can Min & Met Bul—Canadian Mining and Metallurgical Bulletin. $12 m Canadian Institute of Mining and Metallurgy, 906 Drummond Bldg, Montreal, Que.

Cer Ind—Ceramic Industry. $4 m Industrial Publications, Inc, 5 So. Wabash Av, Chicago 3
Chem & Eng N—Chemical and Engineering News. $6 w American Chemical Society, 1155 16th St, N.W, Washington 6, D.C.
Chem & Ind—Chemistry and Industry. £5 w Society of Chemical Industry, 14 Belgrave Square, London, S.W. 1
Chem Eng—Chemical Engineering. $3 bi-w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Chem Eng Prog—Chemical Engineering Progress. $6 m American Institute of Chemical Engineers, 25 W 45th St, New York 36
Civil Eng—Civil Engineering, the Magazine of Engineered Construction. $5 m American Society of Civil Engineers, 33 W 39th St, New York 18
Coal Age—Coal Age. $3 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Com & Electronics—Communication and Electronics. $8 bi-m American Institute of Electrical Engineers, 33 W 39th St, New York 18
Combustion—Combustion. $4 m Combustion Pub. Co, Inc, 200 Madison Av, New York 16
Comp Air Mag—Compressed Air Magazine. $5 m Compressed Air Magazine Co, 942 Memorial Parkway, Phillipsburg, N.J.
Concrete—Concrete. $6 m Concrete Pub. Corp, Daily News Plaza, 400 W Madison St, Chicago 6
Control Eng—Control Engineering. $5 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Corrosion—Corrosion. $11 m National Association of Corrosion Engineers, Inc, 1061 M & M Bldg, Houston 2, Tex.

Diesel Power—Diesel Power. $4 m Diesel Publications, Inc, 80 Lincoln Av, Stamford, Conn.
Dom Eng—Domestic Engineering. $5 m Domestic Engineering Co, 1801 Prairie Av, Chicago 16
Drug & Cosmetic Ind—Drug and Cosmetic Industry. $3 m Drug Markets, Inc, 101 W 31st St, New York 1

Econ Geol—Economic Geology and the Bulletin of the Society of Economic Geologists. $6.50 s-q Economic Geology Pub. Co, M. M. Leighton, Business Mgr, Urbana, Ill.
Elec Com—Electrical Communication. $2 q International Telephone and Telegraph Corp, 67 Broad St, New York 4
Elec Constr & Maint—Electrical Construction and Maintenance. $3 m McGraw-Hill Pub. Co, 330 W 42d St, New York 36
Extra number published in Mid-September
Elec Eng—Electrical Engineering. $12 m American Institute of Electrical Engineers, 33 W 39th St, New York 18
Elec Manuf—Electrical Manufacturing. $15 m Conover-Mast Publications, Inc, 205 E 42d St, New York 17
Elec World—Electrical World. $6 w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Electrochem Soc J—Journal of the Electrochemical Society. $18 m Electrochemical Society, 1860 Broadway, New York 23
Electronic & Radio Eng—Electronic and Radio Engineer. £2 9s, U.S. and Canada $7.50 m Iliffe & Sons, Ltd, Dorset House, Stamford St, London, S.E. 1
Electronic Eng—Electronic Engineering. £1 16s; U.S. $5; Canada $5 m Morgan Brothers, Ltd, 28, Essex St, Strand, London, W.C. 2
Electronic Ind—Electronic Industries. $10 m Chilton Co. Chestnut & 56th Sts, Philadelphia 39
Electronics—Electronics. $6 w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Extra number published in Mid-June
Eng & Min J—Engineering and Mining Journal. $4 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Eng J—Engineering Journal. $6 m Engineering Institute of Canada, 2050 Mansfield St, Montreal 2, Que.
Eng N—Engineering News-Record. $6 w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Engineer—Engineer. £5 10s; Canadian subs £5 5s w Morgan Brothers, Ltd, 28, Essex St, Strand, London, W.C. 2
Engineering—Engineering. £5 10s; Canadian subs £5 5s w Engineering Ltd, 36 Bedford St, London, W.C. 2

Food Eng—Food Engineering. $2 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Food Tech—Food Technology. $11 m Institute of Food Technologists, 11606 S. Bell Av, Chicago 43
Foundry—Foundry. $10 m Penton Pub. Co, Penton Bldg, Cleveland 13
Franklin Inst J—Journal of the Franklin Institute. $10 m Franklin Institute of the State of Pennsylvania, Benjamin Franklin Parkway at 20th St, Philadelphia 3

Gas—Gas. $2 m Chilton Co, 56th and Chestnut Sts, Philadelphia 39
Gas Age—Gas Age combining Natural Gas, Gas Age, Gas Record. $5 bi-w Moore Pub. Co, Inc, 48 W 38th St, New York 18
Geol Soc Bul—Bulletin of the Geological Society of America. $15 m Geological Society of America, H. R. Aldrich, sec, 419 W 117th St, New York 27
Geophysics—Geophysics. $10 5 times a yr Society of Exploration Geophysicists, Colin Campbell, Business Manager, Box 1536, Tulsa 1, Okla.
Glass Ind—Glass Industry. $5 m Ogden Pub. Co, 55 W 42d St, New York 36

Heating-Piping—Heating, Piping and Air Conditioning. $3 m Keeney Pub. Co, 6 N Michigan Av, Chicago 2

I S A J—ISA Journal. $4 m Instrument Society of America, 313 6th Av, Pittsburgh 22
Illum Eng—Illuminating Engineering, The Journal of the Illuminating Engineering Society. $18 m Illuminating Engineering Society, 1860 Broadway, New York 23
Ind & Eng Chem—Industrial and Engineering Chemistry. $5 m American Chemical Society, 1155 16th St, N.W. Washington 6, D.C.
Ind Chem—Industrial Chemist. 40s m Tothill Press Ltd, 33 Tothill St, Westminster, London, S.W. 1
Ind Finishing—Industrial Finishing. $3 m Practical Publications, Inc, 1142 N. Meridian St, Indianapolis 4
Ind Lab—Industrial Laboratories, The Magazine of Research and Development. $10 m F. D. Thompson Publications, Inc, 201 N. Wells St, Chicago 6
Ind Med—Industrial Medicine and Surgery. $6 m Industrial Medicine Pub. Co, 400 S.W. 69th Av, Miami 44, Fla.
Ind Phot—Industrial Photography. $6 m Photography in Business, Inc, 10 E 40th St, New York 16
Ind Quality Control—Industrial Quality Control. $9 m American Society for Quality Control, Inc. 161 W Wisconsin Av, Milwaukee 3
Inland & Am Ptr & Lithogr—Inland and American Printer and Lithographer. $5 m Maclean-Hunter Pub. Corp, 79 W Monroe St, Chicago 3
Inst E E Proc—Proceedings of the Institution of Electrical Engineers. The Institution, Savoy Place, Victoria Embankment, London, W.C. 2
Published in 2 parts: pt A, Power Engineering, bi-m (F); pt B, Electronic and Communication Engineering (including Radio Engineering) bi-m (Ja)
Inst Mech Eng Proc—Proceedings of the Institution of Mechanical Engineers, separate papers Institution of Mechanical Engineers, 1 Birdcage Walk, Westminster, London, S.W. 1
Inst Metals J—Journal of the Institute of Metals. 180s m Institute of Metals, 17 Belgrave Square, London, S.W. 1
Inst Pet J—Journal of the Institute of Petroleum. £4 14s 6d. m Institute of Petroleum, 61 New Cavendish St, London, W. 1
Inst Radio Eng Proc—Proceedings of the Institute of Radio Engineers. $18 m Institute of Radio Engineers, Inc, 1 E 79th St, New York 21
Instrument Soc Am J. See I S A J
Instruments & Automation—Instruments and Automation. $4 m Instruments Pub. Co, Inc, 845 Ridge Av, Pittsburgh 12, Pa.
Name changed to Instruments and Control Systems February, 1959

Instruments & Control Systems—Instruments and Control Systems. $4 m Instruments Pub. Co, Inc, 845 Ridge Av, Pittsburgh 12, Pa.
Iron Age—Iron Age. $15 w Chilton Co, Inc, Chestnut & 56th Sts, Philadelphia 39
Iron & Steel Eng—Iron and Steel Engineer. $7.50 m Association of Iron and Steel Engineers, 1010 Empire Bldg, Pittsburgh 22
Iron & Steel Inst J—Journal of the Iron and Steel Institute. £12 m Iron and Steel Institute, 4, Grosvenor Gardens, London, S.W. 1

J Aero/Space Sci—Journal of the Aero/Space Sciences. $15 m Institute of the Aeronautical Sciences, Inc, 2 E 64th St, New York 21
J Agri & Food Chem—Journal of Agricultural and Food Chemistry. $6 m American Chemical Society, 1155 16th St, N.W. Washington 6, D.C.
J Ap Chem—Journal of Applied Chemistry. £15 m Society of Chemical Industry, 14 Belgrave Square, London, S.W. 1
J Ap Mech—Journal of Applied Mechanics. $5 q American Society of Mechanical Engineers, 29 W 39th St, New York 18
J Ap Phys—Journal of Applied Physics. $14 m American Institute of Physics, 335 E 45th St, New York 17
$12 to members and associate members of the American Institute of Physics
J Basic Eng. See A S M E Trans
J Colloid Sci—Journal of Colloid Science. $17.50 bi-m Academic Press Inc, Mt Royal & Guilford Avs, Baltimore 2
J Eng Ind. See A S M E Trans
J Eng Power. See A S M E Trans
J Geol—Journal of Geology. $8 bi-m University of Chicago Press, 5750 Ellis Av, Chicago 37
J Heat Transfer. See A S M E Trans
J Math & Phys—Journal of Mathematics and Physics. $6 q Massachusetts Institute of Technology, Cambridge 39, Mass.
J Metals—Journal of Metals. $10 m American Institute of Mining, Metallurgical and Petroleum Engineers, Inc, 29 W 39th St, New York 18
J Nutrition—Journal of Nutrition. $22.50 m Wistar Institute of Anatomy and Biology, 36th St at Spruce, Philadelphia 4
J Pet Tech—Journal of Petroleum Technology. $8 m Society of Petroleum Engineers of AIME, 6300 North Central Expressway, Dallas 6
J Res Nat Bur Stand—Journal of Research of the National Bureau of Standards. Superintendent of Documents, Washington 25, D.C.
Published in 4 sections beginning July-August, 1959: A, Physics and Chemistry $4 bi-m; B, Mathematics and Mathematical Physics $2.25 q; C, Engineering and Instrumentation $2.25 q; D, Radio Propagation $4 bi-m
J Sci Instr—Journal of Scientific Instruments. £6; U.S. $17 m Institute of Physics, 47 Belgrave Square, London, S.W. 1
Jet Propulsion—Jet Propulsion. $12.50 m American Rocket Society, 500 5th Av, New York 36
Name changed to ARS Journal January, 1959

Light Metal Age—Light Metal Age. $4 bi-m Roy Fellom, Jr, 549 W Randolph St, Chicago 6
Lub Eng—Lubrication Engineering. $6 m American Society of Lubrication Engineers, 5 N. Wabash Av, Chicago 2

Mach—Machinery. $10 m Industrial Press, 93 Worth St, New York 13
Machine Design—Machine Design. $10 bi-w Penton Pub. Co, Penton Bldg, Cleveland 13
Mag of Stand—Magazine of Standards. $7 m American Standards Association, Inc, 70 E 45th St, New York 17
Manuf Chem—Manufacturing Chemist. £2 m Leonard Hill, Ltd, Eden St, London, N.W. 1
Marine Eng/Log—Marine Engineering/Log. $4 m (s-m in May) Simmons-Boardman Pub. Corp, 30 Church St, New York 7
Materials in Design Eng—Materials in Design Engineering. $3 m Reinhold Pub. Corp, 430 Park Av, New York 22
Extra number published in Mid-October
Mech Eng—Mechanical Engineering. $7 m American Society of Mechanical Engineers, 29 W 39th St, New York 18
Metal Finishing—Metal Finishing. $5 m Metals and Plastics Publications, Inc, 381 Broadway, Westwood, N.J.
Metal Prog—Metal Progress. $9 m American Society for Metals, Metals Park, Novelty, Ohio
Metallurgia—Metallurgia, the British Journal of Metals. 30s m Kennedy Press, Ltd, 31 King St. W, Manchester 3
Mill & Factory—Mill & Factory. m Conover-Mast Publications, Inc, 205 E 42d St, New York 17
Price on request
Min Cong J—Mining Congress Journal. $3 m American Mining Congress, 1102 Ring Bldg, Washington 6, D.C.
Min Eng—Mining Engineering. $8 m American Institute of Mining, Metallurgical and Petroleum Engineers, Inc, 29 W 39th St, New York 18
Mod Materials Handling—Modern Materials Handling. $8 m Modern Materials Handling, 221 Columbus Av, Boston 16
Mod Metals—Modern Metals. $3 m Modern Metals Pub. Co, 435 N. Michigan Av, Chicago 11
Mod Phot—Modern Photography. $4 m Photography Pub. Corp, 33 W 60th St, New York 23
Mod Plastics—Modern Plastics. $7 m Modern Plastics, Inc, 575 Madison Av, New York 22
Mod Textiles Mag—Modern Textiles Magazine. $5 m Rayon Pub. Corp, 303 Fifth Av, New York 16

Noise Control—Noise Control. $8 bi-m Noise Control, 335 E 45th St, New York 17
Nucleonics—Nucleonics. $8 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36

Oil & Gas J—Oil and Gas Journal. $5 w Petroleum Pub. Co, 211 South Cheyenne Av, Tulsa 3, Okla.
Op Res—Operations Research. $10 bi-m Operations Research Society of America, Mt Royal and Guildford Avs, Baltimore 2

Paint Oil & Chem R—Paint, Oil and Chemical Review. $3 bi-w Trade Review Co, 332 W Harrison St, Oak Park, Ill.
Paper Ind—Paper Industry. $3 m Fritz Publications, Inc, 431 S Dearborn St, Chicago 5
Pet Eng—Petroleum Engineer; Management Edition. $8 m Petroleum Engineer Pub. Co, 800 Davis Bldg, Dallas 2
Pet Refiner—Petroleum Refiner. $2 m Gulf Pub. Co, Box 2608, Houston 1, Tex.
Phys Today—Physics Today. $4 m American Institute of Physics, 335 E 45th St, New York 17
Pit & Quarry—Pit and Quarry. $3 m Pit and Quarry Publications, Inc, 431 S Dearborn St, Chicago 5
Plant—Plant. $6 m Plant Pub. Co, Wheaton, Ill.
Plant & Power Services Eng—Plant and Power Services Engineer. $10 m Putman Pub. Co, 111 E Delaware Place, Chicago 11
Formerly Power Industry; changed May, 1959
Plant Eng—Plant Engineering. $10 m Technical Pub. Co, 308 E. James St, Barrington, Ill.
Plastics Tech—Plastics Technology, The Magazine of Applied Engineering. $7 m Bill Brothers Pub. Corp, 630 Third Av, New York 17
Plastics World—Plastics World. $5 m Cleworth Pub. Co, Inc. 1 River Road, Cos Cob, Conn.
Plating—Plating. $5 m American Electroplaters' Society, Inc, 5800 N Marvine St, Philadelphia 41
Power—Power. $5 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Power Apparatus & Systems—Power Apparatus and Systems. $8 bi-m American Institute of Electrical Engineers, 33 W 39th St, New York 18
Power Eng—Power Engineering. $10 m Power Engineering, 308 E. James St., Barrington, Ill.
Power Ind—Power Industry, Including Industrial Power and Industry Power. $10 m Putman Pub. Co, 111 E Delaware Place, Chicago 11
Name changed to Plant and Power Services Engineer May, 1959
Product Eng—Product Engineering. $5 w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Extra number published in Mid-September

Prog Arch—Progressive Architecture. $5 m Reinhold Pub. Corp, 430 Park Av, New York 22

Pub Roads—Public Roads. $1 bi-m Superintendent of Documents, Washington 25, D.C.

Pub Works—Public Works. $5 m Public Works Journal Corp, 200 S Broad St, Ridgewood, N.J.

Q S T—QST. $5 m American Radio Relay League, Inc, 38 La Salle Rd, West Hartford 7, Conn.

RCA R—RCA Review. $2 q Radio Corporation of America, RCA Laboratories Division, Princeton, N.J.

R Sci Instr—Review of Scientific Instruments. $11 m American Institute of Physics, 335 E 45th St, New York 17
$9 to members of scientific societies

Radio Corp Am R. See RCA R

Radio-Electronics—Radio-Electronics. $4 m Gernsback Publications, Inc, 154 W 14th St, New York 11

Refrig Eng—Refrigerating Engineering Including Air Conditioning. $5 m American Society of Refrigerating Engineers, 234 Fifth Av, New York 1
Name changed to ASHRAE Journal March, 1959

Research—Research, Applied in Industry. £3 5s; U.S. $10.75 m Butterworths Publications, Ltd, 88 Kingsway, London, W.C. 2

Roads & Sts—Roads and Streets. $6 m Gillette Pub. Co, 22 West Maple St, Chicago 10

Rock Prod—Rock Products. $3 m Maclean-Hunter Pub. Corp, 79 W Monroe St, Chicago 3

Roy Aeronautical Soc J—Journal of the Royal Aeronautical Society. £7 10s m Royal Aeronautical Society, 4 Hamilton Place, London, W. 1

Rubber Age—Rubber Age. $5 m Palmerton Pub. Co, Inc, 101 W 31st St, New York 1

Rubber Chem & Tech—Rubber Chemistry and Technology. $9.50 5 times a yr American Chemical Society, Division of Rubber Chemistry, Prince and Lemon Sts, Lancaster, Pa.

Rubber World—Rubber World. $5 m Bill Brothers Pub. Corp, 630 3d Av, New York 17

S A E J—SAE Journal. $12 m Society of Automotive Engineers, Inc, 485 Lexington Av, New York 17

SMPTE J—Journal of the Society of Motion Picture and Television Engineers. $12.50 m Society of Motion Picture and Television Engineers, 55 W 42d St, New York 36

Safety Maint—Safety Maintenance. $4 m Alfred M. Best Co, Inc, 75 Fulton St, New York 38

Sci Am—Scientific American. $6 m Scientific American, Inc, 415 Madison Av, New York 17

Sewage & Ind Wastes—Sewage and Industrial Wastes. $7.50 m Federation of Sewage and Industrial Wastes Associations, 4435 Wisconsin Av, N.W, Washington 16, D.C.

Soap & Chem Spec—Soap and Chemical Specialties. $4 m MacNair-Dorland Co, Inc, 254 W 31st St, New York 1

Soc Automotive Eng J. See S A E J

Soc Dyers & Col J—Journal of the Society of Dyers and Colourists. £5 5s m Society of Dyers and Colourists, Dean House, 19 Piccadilly, Bradford 1, Yorkshire, England

Soc Motion Picture & Television Eng J. See SMPTE J

Space/Aeronautics—Space/Aeronautics. $10 m Conover-Mast Publications, Inc, 205 E 42d St, New York 17

Steel—Steel. $10 w Penton Pub. Co, Penton Bldg, Cleveland 13

Tappi—Tappi. $10 m Technical Association of the Pulp and Paper Industry, 360 Lexington Av, New York 17

Tech Assn Pulp & Paper Ind. See Tappi

Textile Ind—Textile Industries. $2 m W. R. C. Smith Pub. Co, 806 Peachtree St, N.E. Atlanta 8
Extra number published in Mid-September

Textile Res J—Textile Research Journal. $25 m Textile Research Institute, Inc, Publications Department, P.O. Box 625, Princeton, N.J.

Textile World—Textile World. $2 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Extra number published in Mid-July

Tool Eng—Tool Engineer. $6 m (s-m in June) American Society of Tool Engineers, 10700 Puritan Av, Detroit 38

Traffic Q—Traffic Quarterly. q Eno Foundation for Highway Traffic Control, Inc, Saugatuck, Conn.
Price on request

Water & Sewage Works—Water & Sewage Works. $5 m Scranton Pub. Co, 185 N Wabash Av, Chicago 1
Two numbers published in September, included in annual subscription

Water Works Eng—Water Works Engineering. $3 m Water Works Engineering, 466 Lexington Av, New York 17

Welding Eng—Welding Engineer. $3 m Welding Engineer Publications, Inc, P.O. Box 28, Morton Grove, Ill.
Extra number published in Mid-June

Welding J—Welding Journal. $8 m American Welding Society, 33 W 39th St, New York 18

Westinghouse Eng—Westinghouse Engineer. $2.50 bi-m Westinghouse Engineer, P.O. Box 2278, 3 Gateway Center, Pittsburgh 30

Wire & Wire Prod—Wire and Wire Products. $8 m Quinn-Brown Pub. Corp, 453 Main St, Stamford, Conn.

Wireless World—Wireless World. £1 15s; U.S. $5; Canada $5 m Iliffe and Sons, Ltd, Dorset House, Stamford St, London, S.E. 1

Key to General Abbreviations

+	continued on later pages of the issue	Jl	July
abr	abridged	Mr	March
Ag	August	My	May
Ap	April	N	November
arch	architect	n s	new series
bibliog	bibliography	no	number
comp	compiled or compiler	O	October
cond	condensed	p	page
cont	continued	pl	plate
D	December	por	portrait
diag	diagram	pseud	pseudonym
ed	edited or edition or editor	pt	part
F	February	rev	revised
il	illustrations	S	September
inc	incorporated	sup	supplement
Ja	January	tr	translated or translation or translator
Je	June	v	volume
		yrbk	yearbook

Sample entry: ELECTRIC wire
Protection
Aluminized strand service test results, E. B. Brant. il Wire & Wire Prod 34:1101+ S '59

Explanation: An illustrated article on the subject **ELECTRIC wire—Protection** entitled "Aluminized strand service test results," by E. B. Brant, will be found in volume 34 of Wire and Wire Products, page 1101 (continued on later pages of the same issue) the September 1959 number.

Applied Science & Technology Index

1959

ABS (alkyl benzenesulfonate). See Benzenesulfonates

ACTH
Corticotropins (ACTH). J. Léonis and others. bibliog il diag Am Chem Soc J 81:415-23 Ja 20 '59
Pituitary-adrenal response following trauma to the isolated leg; abstract. R. H. Egdahl. Ind Med 28:429 S '59

ACTION. See American council to improve our neighborhoods

ADS. See Association of Diesel specialists

AALTO, Alvar
Finland and architect Aalto. J. E. Burchard. il diags Arch Rec 125:126-36 Ja '59

ABACUS
Origin and development of the Chinese abacus. S. T. Li. bibliog il Assn for Computing Mach J 6:102-10 Ja '59

ABANDONED mines. See Mines and mineral resources—Abandoned mines

ABBREVIATIONS
Common electronic abbreviations. Electronic Ind 18:32+ Je '59
See also
Symbols

ABERRATION (optics)
Evaluation of lens distortion by visual and photographic methods. F. E. Washer and others. il J Res Nat Bur Stand 61:509-15 D '58
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Preparation of 6-hydroxydehydroabietic acid from the photoperoxide of levopimaric acid. R. N. Moore and R. V. Lawrence. bibliog Am Chem Soc J 81:458-60 Ja 20 '59

ABILENE, Texas
Sewerage
Sewer extension policies. S. A. Garza and others. Water & Sewage Works 106:125 Mr '59

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See also
Creative ability

ABILITY tests
Do you hire the blind to see? use of personnel selection tools. R. I. Weil. Textile Ind 123: 97-8 Jl '59
How satisfactory are pre-employment company examinations for engineers? points of view. Product Eng 30:40-1 Ap 20 '59
R for quality products, quality workers; Miniature precision bearings, inc. C. J. Vlahos. il Mill & Factory 63:100-1 O '58

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Friction and abrasion of rubber. A. Schallamach. bibliog il diags Rubber Chem & Tech 31:982-1014 D '58
Further development and use of the Armstrong sandpaper abrasion machine. F. M. Gavan. bibliog il A S T M Bul p44-8 My '59
Improvement of selected physical properties of partially acetylated cotton fabrics. A. S. Cooper, jr. and others. bibliog Am Dyestuff Rep 48:43-9 O 5 '59
Interpretation of fiber properties; role of single fiber flex fatigue in abrasion resistance of fabrics. T. B. Lefferdink and H. P. Briar. diags Textile Res J 29:477-84 Je '59
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New method for determining the wet adherence of supported films to various bases. A. S. Diamond. bibliog il diags A S T M Bul p48-54 F '59
Surface heating by friction and abrasion by thermal decomposition. W. Viehmann. diags Rubber Chem & Tech 31:925-40 O '58

ABRASIVE belts
Abrasive belt grinding upgrades metal bonds. il Steel 144:90 My 4 '59
Abrasive belt performance influenced by several factors. R. W. Reed. il diags Plating 46:27-30 Ja '59
Abrasive-belt shortcut stresses polish before forming. R. H. Eshelman. il diags Iron Age 183:129-31 Je 11 '59
Acme introduces abrasive belt finishing machine line. il Am Mach 103:146 Jl 13 '59
Belt grinding titanium. C. T. Olofson. Light Metal Age 17:6-7 Je '59
Better finishing; grinding and polishing with abrasive belts. W. K. Seward. il diag Metal Prog 76:95-100 S '59
Centerless belt grinding meets close tolerances. il Steel 145:117 Ag 17 '59
Costly aluminum plates reclaimed by belt grinder. il Steel 145:110 Jl 13 '59
Effects of operating variables on abrasive belt life. J. M. Pitblado. il Tool Eng 41: 113-16 O '58
Faster precision grinding with belts. il Mill & Factory 64:106-7 Ja '59
Four new methods for shaping new materials; electrical discharge machining, ultra high speed machining, Chem-Mill process, abrasive belt machining. R. R. Dobson. S A E J 67:80-1 F '59
Machining with coated abrasive belts. M. M. Gilman. diags Automotive Ind 120:70-1 F 15 '59
Paper mill roll grinding by the abrasive belt method. J. Burroughs. diags Tappi 42:sup 147A-8A S '59
Revolving drum saves abrasive belts; German grinder-polisher; illustration and drawings with text. Product Eng 30:85 Je 8 '59
Roughing and polishing metals with abrasive belts; data sheet. diags Metal Prog 76: 96B-96D S '59
Surfacing of zirconium alloy sheet by abrasive belt grinding; abstract. H. N. Dyer and R. A. Leggett. il Metal Prog 76:154+ S '59
Timed pneumatic system improves ground finish. E. Moldovan. il diag Ap Hydraulics & Pneumatics 12:112-13 My '59
Wet-belt grinding. il Mod Plastics 36:127+ My '59

ABRASIVES
Abrasive sheets and belts. L. F. Spencer. Metal Finishing 57:52-7 F '59
Attachment caresses surfaces to a controlled finish. il Steel 145:110-12 Jl 27 '59
Barrel finishing for plating. M. M. Maynes. il Plating 46:36-40 Ja '59
Barrel finishing; what it does to service life. L. P. Tarasov. il Am Mach 103:98-100 F 9 '59
Barrel finishing with specific-shape abrasive media. D. Mosher and others. diags Tool Eng 42:81-4 F '59
Cutting with abrasives. R. N. Perry, jr. il Plant Eng 12:100-2 D '58
Film proves abrasive wheels cut chips. il Am Mach 102:85 O 6 '58

ABRASIVES—*Continued*
Improve fatigue strength with abrasive tumbling. Iron Age 183:129-31 F 19 '59
Mechanical abrasive-media finishing machine. il diag Mach 65:180 Ja '59
Mechanical finishing using flowing abrasive media. C. H. Castle. il diag Plating 46:31-3 Ja '59
Microstoning generates precise finishes. R. Le Grand. il diag Am Mach 103:96-8 Jl 27 '59
New developments in metalworking equipment. il Mill & Factory 64:MW8 My '59
Taft-Peirce microstoning attachments. il diags Mach 66:204+ O '59
Wear of abrasives in grinding. G. L. Goepfert and J. L. Williams. bibliog il Mech Eng 81:69-73 Ap '59; Discussion. 81:86-7 S '59
See also
Abrasive belts
Metal finishing
Polishing
Polishing materials

ABSENTEEISM (labor)
How to control absenteeism. D. D. McConkey. Mill & Factory 64:87-90 Mr '59

ABSOLUTE zero
Research near absolute zero. il Engineering 186:678-80 N 21 '58

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Gas purification; sulfur dioxide removal by liquid absorption. A. L. Kohl and F. C. Riesenfeld. flow diags diag Chem Eng 66: 147-51 Je 15 '59
Gas purification; water as an absorbent for gas impurities. A. L. Kohl and F. C. Riesenfeld. flow diag diag Chem Eng 66:143-7 Je 15 '59
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Oxygen absorption characteristics of inhibited transformer oils. L. Massey and A. C. M. Wilson. bibliog il diag Inst Pet J 44:336-56; Discussion. 367-77 O '58
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Which acetylene removal scheme is better? absorption versus hydrogenation. W. H. Stanton. flow diags diag Pet Refiner 38: 177-80 My '59
See also
Silica gel
Sound—Absorption

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Absorption of vitamin A in dogs following cholecystonephrostomy. M. M. Kaser and others. bibliog J Nutrition 66:35-44 S '58
Effect of antibiotics on the gastrointestinal absorption of calcium and magnesium in the rat. F. W. Heggeness. bibliog J Nutrition 68:573-82 Ag '59
Effect of methionine deficiency on nitrogen absorption from the intestinal tract of chickens. J. J. Pisano and others. bibliog J Nutrition 67:213-22 F '59
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Vitamin B_{12} absorption in pyridoxine-deficient rats. S. D. J. Yeh and B. F. Chow. bibliog Am J Clinical Nutrition 7:426-32 Jl '59

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ABSORPTION apparatus—*Continued*
Liquid-side mass transfer coefficients in packed towers. K. Onda and others. bibliog diag A I Ch E J 5:235-9 Je '59
Mechanism of liquid flow in packed columns. M. B. Sheridan and M. B. Donald. bibliog diags Ind Chem 35:439-42, 487-91 S-O '59
See also
Petroleum refineries—Vapor recovery

Control
Footvalves for downcomers prevent tower flooding. H. H. Sun. diags Chem Eng 66: 162 Jl 13 '59
Infrared analyzer controls absorber. G. M. Hicks and D. D. Livingstone. bibliog flow diag diags Pet Refiner 38:183-6 My '59

ABSORPTION of rays
Absorption measurements and irradiations in the Cary and Beckman spectrophotometers, at low and high temperatures. Y. Hirshberg and E. Fischer. bibliog diags R Sci Instr 30: 197-9 Mr '59
Design of cosmetic sun screens. S. I. Kreps. diags Am Perfumer & Aromatics 74:29-32+ O '59
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See also
Black body
Gamma rays—Absorption
Spectrophotometry
X rays—Absorption

ABSORPTION spectra. See Spectrum—Absorption spectra

ABSTRACTS
Automation and the written word. il Elec Eng 78:281-2 Mr '59
Machine writes abstracts. il Chem & Eng N 36:82+ D 8 '58
Scrutiny of the abstract. K. K. Landes. Geophysics 23:942-3 D '58
Technical digests simplify understanding. F. Machon. diag Engineering 188:278-9 O 2 '59

ACADEMIC dissertations. See Dissertations, Academic

ACCELERATION of machinery. See Machinery, Kinematics of

ACCELERATORS. See Vulcanization—Accelerators

ACCELERATORS (particles)
Accelerator conference, Cambridge, Oct. 14-16. Phys Today 12:26-8 Ap '59
Amateur scientist, how to make an electrostatic machine to accelerate both electrons and protons. C. L. Stong. diags Sci Am 200: 138-42+ Ja '59
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Engineers can help develop high-energy accelerators; abstract. K. R. Symon. S A E J 67:88 O '59
High-current, 400-kv Cockcroft-Walton accelerator. W. L. Bronner and others. bibliog diags Nucleonics 17:94-7 Ja '59
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Multi-stage accelerators seen. R. J. Van de Graaff. diag Chem & Eng N 36:52-3 N 10 '58
Nuclear physics research at Aldermaston; Van de Graaff accelerator now in operation and multi-channel magnetic spectrograph under construction. il diags Engineer 207:917-19 Je 12 '59
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Stellarator program blooms at Princeton. il Nucleonics 16:198 N '58
Tandem electrostatic accelerators. diags Electronic Ind 18:100+ Mr '59
Tandem electrostatic accelerators increase ion beam energy for nuclear research. R. J. Van de Graaff. diag Elec Eng 78:397-8 Ap '59
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Water-cooled X-ray target produces up to 10^9 r/hr. C. D. Wagner and V. A. Campanile. il diags Nucleonics 17:99 Jl '59
See also
Linear accelerators
Synchrotron

ACCELERATORS, Electron. See Electron accelerators

ACCELEROMETERS
Accelerometer calibration. A. B. Kaufman. bibliog il Instruments & Control Systems 32:544-7 Ap '59
Accelerometers. il diags Instruments & Control Systems 32:540-2 Ap '59
Accelerometers effect vertical gyro output. F. V. Sulmer. diag Electronics 32:64-5 Jl 10 '59
Acoustic sensitivity of accelerometers. A. B. Kaufman. bibliog il Instruments & Control Systems 32:720-1 My '59
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Pickoff outputs in dynamic testing; potentiometer and the Microsyn. S. N. Wasserman. diags Elec Manuf 64:156+ Ag '59
Sensitive accelerometer measures air density 300 miles up. il Noise Control 5:56 Jl '59

Mounting
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Anthraldehyde
Benzaldehyde
Crotonaldehyde
Formaldehyde
Glycidaldehyde
Heptyl aldehyde
Lactaldehyde
Methacrylaldehyde
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Annual meeting, San Francisco, Feb. 15-19. Eng & Min J 160:89-92+ Ap '59
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Map, location, and identification of local sections; with name and address of the local section secretary or secretary-treasurer. Min Eng 10:812-13 Jl '58; Same. J Metals 10:686-7 O '58
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Bylaws approved Feb. 16, 1958. Min Eng 11: 79-80 Ja '59

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Annual meeting, San Francisco, Feb. 15-19; program and abstracts of papers. J Metals 11:57-76 Ja '59
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Annual fall meeting, 34th, Dallas, Oct. 4-7; program and abstracts of papers. J Pet Tech 11:47-59 S '59

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AIPE adds new chapters. Plant Eng 13:140-1 My '59
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Hawaii newest chapter; other activities. Plant Eng 13:154+ S '59

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National engineering conference, 11th, Birmingham. Eng N 162:24 Ap 23 '59

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Annual meeting, New Orleans. Dom Eng 192:88+ D '58

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Annual meeting, 34th, Boston, Oct. 16-17; abstracts of papers. Am Mach 102:100 N 3 '58; Mach 65:159-60 D '58
Spring meeting, Washington, March 18-19. Am Mach 103:127 Ap 6 '59

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AMHS, first ten years. Mod Materials Handling 14:101-14 Je '59
Four new regional vice presidents elected. Mod Materials Handling 14:129-30 S '59
Tenth anniversary banquet, Cleveland, June 11. Mod Materials Handling 14:113-16 Ag '59

AMERICAN medical association
Annual institute, 2d, Chicago, Aug. 27-28. Drug & Cosmetic Ind 83:467 O '58

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Annual convention, San Francisco, Sept. 22-26; with abstracts of papers. Pit & Quarry 51:78-81 N '58; Rock Prod 61:106+ D '58
Annual meeting, New York, Dec 1. Min Cong J 45:21-4 Ja '59
Coal division annual meeting, Cleveland, May 11-14; abstracts of papers. Coal Age 64: 120-6+ Je '59; Min Cong J 45:69-81 Je '59
Coal division 24th annual conference, Pittsburgh, Nov. 14th; with abstracts of papers. Min Cong J 45:57-60 Ja '59
Directors. Min Cong J 45:54-5 Ag '59
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Only American museum of its kind explains the atom in layman's terms. il Elec Eng 78:781-3 Jl '59

AMERICAN national exhibition in Moscow
Geodesic dome big attraction at Moscow fair. il Mod Metals 15:118 S '59
Geodesic dome erection attracts USSR attention; American national exhibition, Moscow. il Plant 20:25-7 Ag '59
Plastics pavilion in Moscow. il Plastics World 17:16 Je '59
Reinforced plastic pavilions. il Plastics Tech 5:58-9 Je '59
Undulating umbrellas designed for Moscow trade fair. il Prog Arch 40:69 Je '59
U.S. aluminum dome goes up in Moscow. il Light Metal Age 17:18-19 Je '59
U.S. exhibition in Moscow; large design challenge. il plan Arch Rec 125:10 Ap '59
US gives Moscow something to talk about; American national exhibition, Sokolniki park. il Eng N 162:24-5 Je 25 '59
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Anniversary meeting, 50th, New Orleans, April 20-22. Am Oil Chem Soc J 36:sup20-2+ Je '59
Fall meeting, 33d, Los Angeles, Sept. 28-30; program. Am Oil Chem Soc J 36:sup 18-19+ Ag '59
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President looks at the 50th year. J. C. Konen. Am Oil Chem Soc J 36:sup4-6 My '59
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Report of the Smalley committee, 1958-1959. Am Oil Chem Soc J 36:260-1 Je '59
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Treasurer's report, 1958 and report of the advertising committee, 1958-1959. Am Oil Chem Soc J 36:sup 13-14 Je '59

AMERICAN ordnance association
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AMERICAN paper and pulp association
Annual convention, 82d, New York, Feb. 22-26. Inland & Am Ptr & Lithogr 143:120-1+ Ap '59
Annual meeting, 82d, New York. Paper Ind 40:819-20+ Mr '59

AMERICAN petroleum institute
Annual meeting, 38th. Oil & Gas J 56:115-32 N 17 '58
Division of refining, 24th midyear meeting, New York, May 27-29; program. Pet Refiner 38:258+ Mr '59
Only the skilled can work; API's organization for training. Pet Eng 30:A25-7 N '58

AMERICAN photoengravers association
Annual convention, 62d, Cincinnati, Oct. 12-15. Inland & Am Ptr & Lithogr 142:114 N '58

AMERICAN power conference
Annual meeting, 21st, Chicago, March 31-April 2; program. Combustion 30:65-8 F '59; Elec Eng 78:259-60 Mr '59

AMERICAN power conference—*Continued*
Annual meeting, 21st, Chicago, March 31-April 2; abstracts of papers. Combustion 30:49-52 My; 45-52 Je '59
Annual meeting, 21st, Chicago, March 31-April 2; abstracts of papers. Elec World 151:50-3 Ap 27 '59; Plant 19:59-62 My '59; Power Eng 63:94-6+ My '59

AMERICAN public health association
Annual meeting, 86th, St Louis; Laboratory section abstracts of papers. Am J Pub Health 49:684-90 My '59
Annual meeting, 87th, Atlantic City, N.J. Oct. 19-23; program, list of exhibitors, nominations for section offices. Am J Pub Health 49:1194-257 S '59
Balanced activities. Am J Pub Health 49: 102-12 Ja '59
Committees, 1958-1959. Am J Pub Health 49: 376-401 Mr '59
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Annual meeting, 65th, Seattle, Sept. 20-23; program. Pub Works 90:137-8+ S '59
News bulletins. Published in monthly numbers of Public works

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AMERICAN radio relay league
Look back and ahead at ARRL's propagation research project. M. P. Southworth. il map Q S T 43:48-9 Je '59

AMERICAN road builders association
Annual meeting, 57th, Dallas, Jan. 19-22. Civil Eng 29:205-6 Mr '59; Pit & Quarry 51:152 Ap '59; Roads & Sts 102:112-13+ Mr '59
National highway conference for county engineers and officials, Kiamesha Lake, N.Y. Roads & Sts 101:52+ D '58

AMERICAN rocket society
Annual meeting, New York; abstracts of papers. Product Eng 29:19+ D 1 '58
Fall meeting, Detroit; abstracts of papers. Automotive Ind 119:62+ O 15 '58

AMERICAN society for engineering education
Annual meeting, 67th, Pittsburgh, June 15-19. Mech Eng 81:106-7 Ag '59

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Dr Clarence H. Lorig; ASM picks a research scientist. Iron Age 182:165 O 16 '58
New headquarters at Metals Park, Novelty, Ohio. il Metal Prog 76:64A-64D S '59
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American society for quality control. G. R. Foster. Mag of Stand 30:106-9 Ap '59
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Annual report of the Board of directors. Ind Quality Control 16:7-12 O '59
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Better airfields for bigger aircraft; mission of Air transport division. J. M. Kyle, jr. Civil Eng 29:307 My '59

AMERICAN society of engineering education
Annual meeting, 67th, Pittsburgh, June 15-19. Civil Eng 29:595 Ag '59

AMERICAN society of heating and air conditioning engineers (now American society of heating, refrigerating and air conditioning engineers)
Annual meeting, 65th, Philadelphia; abstracts of papers. ASHRAE J 1:70-5+ Mr '59
Annual meeting, 65th, Philadelphia; program. Heating-Piping 31:181 Ja '59
Heating and air conditioning show, 14th and 65th ASHAE meeting, Philadelphia, Jan. 26-29; program, floor plan, list of exhibitors. Air Cond Heat & Ven 56:101-7 Ja '59
How the ASRE council approached the proposed merger. Refrig Eng 66:55-6 N '58
Questions and answers regarding the proposed ASRE-ASHAE merger. Refrig Eng 66:50-1 O '58

AMERICAN society of heating, refrigerating and air-conditioning engineers
ASHRAE laboratory and society research. R. C. Jordan and B. H. Jennings. il ASHRAE J 1:56-61+ S '59
Annual meeting, Lake Placid, June 22-24; program. ASHRAE J 1:75-7 My '59

AMERICAN society of heating, refrigerating and air-conditioning engineers—*Continued*
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Annual meeting, Lake Placid, June 22-24; abstracts of papers on window shading, ventilation, refrigerants. Air Cond Heat & Ven 56:85-7 Ag '59
Consolidation of the American society of heating and air-conditioning engineers and the American society of refrigerating engineers officially and legally effective. ASHRAE J 1:76 Mr '59
More dynamic society; a future of even greater proportions. E. R. Queer; C. Boling. Refrig Eng 67:48-9 Ja '59
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Research program to be expanded greatly. B. H. Jennings. ASHRAE J 1:91+ Mr '59
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Some specific projects; ASHRAE research laboratory. B. H. Jennings. ASHRAE J 1:85 Je '59
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Research and technical committee
Research page bringing together our research and technical activities. ASHRAE J 1:91+ My '59

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Annual meeting, Bedford Springs, Oct. 18-21; with abstracts of papers. Product Eng 29:20-1 N 3 '58

AMERICAN society of lubrication engineers
Administrative committees and chairmen, April 1959-April 1960. Lub Eng 15:372-3 S '59
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ASME elects ten to grade of Fellow member, Mech Eng 81:127-30 My '59
ASME elects thirteen to grade of Fellow member. Mech Eng 81:103-7 S '59
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ASME's research committee program. E. M. Barber. diags Mech Eng 81:48-51 F '59
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Human factors professional group established by ASME, under Professional divisions executive committee. Mech Eng 81: 127 F '59
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Professional divisions of the ASME; their scope and activities. Mech Eng 81:66-76 Mr '59
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Woman's auxiliary 35th annual meeting, New York, Nov. 30-Dec. 5. Mech Eng 81:119-21 Ja '59

Applied mechanics division
Annual meeting, Troy, N.Y, June 18-20. Mech Eng 81:114-15 Ag '59

Aviation division
Annual meeting, Los Angeles, March 9-12. Mech Eng 81:121-3 My '59

Gas turbine power division
Annual meeting, Cincinnati, March 8-11. Mech Eng 81:118-20 My '59

Hydraulic division
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Instruments and regulators division
Annual meeting, 5th, Cleveland, March 30-April 1. Mech Eng 81:126-7 My '59

Maintenance and plant engineering division
Annual meeting, 2d, Chicago, May 4-5. Mech Eng 81:141 Je '59
Annual meeting, 2d, Chicago, May 4-5; with abstracts of papers. Plant 19:55-8 Je '59

Metals engineering division
Meeting, 1st, Albany, April 29-May 1. Mech Eng 81:138-9 Je '59

Oil and gas power division
Annual conference and exhibit, 31st, Houston, Texas, April 20-23. Mech Eng 81:134-5 Je '59

Production engineering division
Meeting, Detroit, May 12-14. Mech Eng 81: 106-8 Jl '59

Rubber and plastics division
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Textile engineering division
Annual meeting, Clemson, S.C, March 12-13. Mech Eng 81:124-5 My '59

AMERICAN society of perfumers
Annual symposium on perfumery, 5th. Drug & Cosmetic Ind 84:788 Je '59

AMERICAN society of planning officials
Annual meeting, 25th, Minneapolis. Eng N 162:25 My 21 '59

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Report on professional registration; joins talks on model law. M. L. Stone. Tool Eng 43:94-7 Ag '59
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Society role in research. il Tool Eng 41:91-2 D '58

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Company member conference, Kansas City, May 6-7; with abstracts of papers. Mag of Stand 30:196-204 Jl '59
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What is an American standard? account of American standards association. S. D. Hoffman. Power Eng 63:99-100 Je '59
Why and how of ASA. C. W. Bryan, jr. Mod Materials Handling 14:86-9 S '59
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AT&T complying with FCC ruling. F. Chapman. Gas 35:140 Ap '59
A.T.&T. reports 1959 progress. il Bell Lab Rec 37:148-50 Ap '59
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AWWA certification policy. Am Water Works Assn J 50:1542-8 D '58
Annual conference, 78th, Dallas, April 20-25. Am Water Works Assn J 50:1626-37 D '58
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Committee reports, publications, auditor's report for year ending Dec. 31, 1958, membership awards, membership growth. Am Water Works Assn J 51:521-54 Ap '59
Directory, membership list, etc. Am Water Works Assn J 51:1-192 pt 2 S '59
For tasks ahead, and jobs well done; AWWA names officers and awardees. Water Works Eng 112:636-7 Jl '59
Papers scheduled at 1958 section meetings. Am Water Works Assn J 50:1638-49 D '58
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Should standards be enforced? L. R. Howson. Am Water Works Assn J 50:1539-41 D '58

Canadian section
Annual meeting, 39th, Montreal; with abstracts of papers. Water & Sewage Works 106:292-3 Jl '59

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Annual meeting, 40th, Chicago, April 6-10; program and list of exhibitors. Iron Age 183:176-8+ Mr 26 '59; Welding J 38:365-6+ Ap '59
Bylaws. Welding J 38:489-94 My '59
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National officers for 1959-60 nominated. Welding J 37:1202-5 D '58

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Determination of americium in plutonium by gamma counting. J. Bubernak and others. Anal Chem 30:1759-62 N '58

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Employees, Training of

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Relaxation methods (mathematics)

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Public health

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Strikes
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See also
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See also
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American institute of architects
Belluschi, Pietro
Breuer, Marcel
Deigert, Robert C.
Gropius, Walter
Gustavson, Dean L.
Kessler, Melvin E.
Klumb, Henry
Koch, Carl
Lamantia, J.
Mies van der Rohe, L.
National council of architectural registration boards
Nervi, Antonio
Nervi, Pier Luigi
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See also
Architecture—Study and teaching

ARCHITECTURAL engineering. See Building

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American institute of architects
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Airport buildings
Beach architecture
Bridges—Architecture
Building materials
Buildings
Canopies (architecture)
Cathedrals
Ceilings
Church architecture
Clinics
Clubhouses
College architecture
Concrete construction
Courts (architecture)
Department stores
Embassy buildings
Exhibition buildings
Factories
Hillside architecture
Interior decoration
Library buildings
Lodges (architecture)
Marquises
Medical buildings
Memorials
Modular coordination (architecture)
Monuments
Moving picture theaters
Municipal centers
Mural painting and decoration
Music halls
Music pavilions
Naval architecture
Office buildings
Park buildings
Partitions
Pavilions
Prisons
Public buildings
Recreation buildings
Remodeling (architecture)
Space (architecture)
Stadiums
Store buildings
Telephone company buildings
Theaters
also subdivision Architecture under names of cities, e.g.
Atlanta
Bangkok
Brasilia, Brazil
Brussels
Chicago
Cleveland
Dallas
Denver
Dhahran, Arabia
Dublin
Flint, Michigan
Hague, Netherlands
Louisville, Kentucky
Memphis
Miami, Florida
Miami Beach, Fla.
Milan
New Delhi, India
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Newport
Ottawa
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Philadelphia
St Louis
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New Palace of the Soviets, almost. il plan Arch Forum 110:11 F '59
Nine Massey medals for architecture awarded in fourth Canadian competition. il Arch Rec 125:12-13 F '59
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Six awards and two special awards given in Hawaii. il Arch Rec 125:15 Mr '59
Which building won the competition? Toronto's City Hall. il Arch Forum 109:7+ N '58
See also
Architecture, Domestic—Competitions

ARCHITECTURE—*Continued*

Designs and plans

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See also subdivision Designs and plans under special subjects, e.g.
Architecture, Domestic
Hospitals
Naval architecture
Radio broadcasting stations
School buildings
Television stations

Details

Progressive Architecture selected details. il plans diags Prog Arch 39:148-9 F; 168-9 Ap; 131-7 Je; 110-11 Jl; 176-7 O '58; 40:164-5 F; 105-27 Mr '59

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Specifications

Organization of specification. H. J. Rosen. Prog Arch 40:9+ Mr '59

Study and teaching

New-old Newport; subject of a student program. il plans diags Arch Rec 125:189-92 F '59
See also
Architectural education

Alaska

Building a 49th state. R. A. Miller. il map Arch Forum 109:112-15+ D '58

Canada

Nine Massey medals for architecture awarded in fourth Canadian competition. il Arch Rec 125:12-13 F '59

Finland

Finland and architect Aalto. J. E. Burchard. il diags Arch Rec 125:126-36 Ja '59

Florida

Five honor awards and four merit awards in Florida. il Arch Rec 125:14 Mr '59

Germany

Architect in Germany; abstract. W. Caudill. diag Arch Forum 109:151 D '58

Greece

Corbu's island of beauty; gallery of photographs of Mykonos. il map Arch Forum 110:108-13 F '59

Hawaiian Islands

Six awards and two special awards given in Hawaii. il Arch Rec 125:15 Mr '59

Israel

Architecture comes of age in Israel. il plans Prog Arch 40:89-92 My '59

Israel; a photographer's notebook; illustrations with text. J. Shulman. Arch Forum 110:175-7 Je '59

Japan

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Mexico

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Netherlands

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Portugal

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Puerto Rico

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Sweden

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United States

Frank Lloyd Wright. il plans diags Arch Forum 110:115-46 Je '59

Progressive architecture in America. A. L. Huxtable. il plan diag Prog Arch 39:149-52 Ap; 105-6 Ag; 157-60 O; 119-22 D '58

Utah

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ARCHITECTURE, American

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History

When civic architecture flourished; gallery of engravings. Arch Forum 110:106-11 Ja '59

ARCHITECTURE, Domestic

Mr Robie knew what he wanted; interview. il plans Arch Forum 109:126-7+ O '58

Steel-frame houses. J. D. Briggs. il Prog Arch 39:123-7 D '58
See also
Apartment houses
Beach houses
Country houses
Fireplaces
Hillside architecture
Houses
Houses, Row
Interior decoration

Architects homes

Architects' homes: New York houses of E. Harris, jr. and R. D. Thompson. L. Sloane. il plan Prog Arch 39:180-5 O '58

Close integration of house with site; residence of Mr and Mrs Albert Preston Moore. il plans Arch Rec 125:180-2 Ap '59

Eliot Noyes; architect's own house in New Canaan, Conn. il plan Arch Rec 124:180 N '58

For the casual life, six rooms with a view; residence for Mr and Mrs Robert L. Goetz. il plan Arch Rec 125:116-19 Mid-My '59

Houses: Thomas C. Babbitt, architect and owner. il plan Arch Rec 124:190-1 N '58

Residential design; steel-and-glass structure for a cold climate. il plans diags Prog Arch 40:102-5 Mr '59

Residential design; tri-nuclear scheme planned for a hillside, East Liverpool. il plan Prog Arch 40:97-101 Mr '59

Simple details pare city-house costs to minimum; residence for Mr and Mrs Gyo Obata. il plans Arch Rec 125:112-15 Mid-My '59

Synthesis for good living; residence for Mr and Mrs José Luis Sert. R. Gourley. il plans Arch Rec 125:66-75 Mid-My '59

Taliesins. il Arch Forum 110:132-6 Je '59

Tri-level house magnifies space; Armstrong house. il plans Arch Rec 124:127-8 D '58

Competitions

Competition winners suggest avenues for housing improvement. il Prog Arch 40:102-3 S '59

Designs and plans

Eight houses designed and built with budget in mind. il plans Arch Rec 124:187-202 N '58

Eliot Noyes; houses. il plans diags Arch Rec 124:172-7 N '58

ARCHITECTURE, Domestic—Designs and plans —*Continued*
Fields of practice; residential design. il plans diags Prog Arch 40:95-127 Mr '59
House with space and privacy. il plan diag Arch Rec 126:191-3 Jl '59
Record houses of 1959. il plans diags Arch Rec 125:65-159 Mid-My '59
Restful house for a restful site. il plans Arch Rec 125:178-9 Ap '59
Romantic discipline for the woodlands. il plans Arch Rec 125:141-6 Ja '59
Roof drama marks seaside house. il plan Arch Rec 126:194-6 Jl '59
Spatial variety enlarges house; Spalding residence. il plan Arch Rec 124:125-6 D '58
TAC: the Architects collaborative; Cape Cod house. R. S. McMillan. il plans Arch Rec 125:160-2 Ap '59
Three Caribbean houses. il plans Arch Rec 124:187-92 O '58
See also
Architecture, Domestic—Competitions
Houses, Model

Details

See also
Stairways

Remodeling

See Houses, Remodeled

Arkansas

Setting for relaxed comfort. il plan Arch Rec 125:100-3 Mid-My '59

California

Exuberant shapes and details highlight a new design direction. il plan Arch Rec 125:88-93 Mid-My '59
For the casual life, six rooms with a view; residence for Mr and Mrs Robert L. Goetz. il plan Arch Rec 125:116-19 Mid-My '59
Pavilion focuses on the sea. il plan Arch Rec 125:140-3 Mid-My '59
Residential design; materials and structure clearly defined. il plan Prog Arch 40:110-14 Mr '59
Residential design; two-level plan facilitates group activities. il plans Prog Arch 40:120-3 Mr '59

Canada

Post-and-beam houses. il Engineering 188: 174 S 11 '59

Connecticut

Close integration of house with site; residence of Mr and Mrs Albert Preston Moore. il plans Arch Rec 125:180-2 Ap '59
Space and light used as design elements; house for Celanese corporation of America. il plans Arch Rec 126:198-200 O '59

Finland

Aalto, experimental house. il Arch Rec 125: 128 Ja '59

Florida

Five levels give a dramatic sequence of spaces. il plans Arch Rec 125:76-9 Mid-My '59
Texture and warmth on a budget. il plans Arch Rec 125:84-7 Mid-My '59

France

L'affaire Savoye; Le Corbusier's villa Savoye near Paris. il Arch Forum 110:107 My '59

Louisiana

House of contrast and sculptured space. il plans Arch Rec 126:195-7 O '59

Maryland

Deigert & Yerkes & associates; house of a group offers contrasting spaces; Tulip Hill, Md. il plan Prog Arch 39:152-3 O '58

Massachusetts

New style for contemporary Cape Cod. il plans Arch Rec 125:154-9 Mid-My '59
Synthesis for good living; residence for Mr and Mrs José Luis Sert. R. Gourley. il plans Arch Rec 125:66-75 Mid-My '59

Minnesota

Residential design; steel-and-glass structure for a cold climate. il plans diags Prog Arch 40:102-5 Mr '59

New Hampshire

Residential design; small space has horizon-wide dimensions. il plan Prog Arch 40: 116-19 Mr '59

New York (state)

Comfort and elegance in tandem. il plans Arch Rec 125:104-7 Mid-My '59
Elegant cabin. il plans Arch Forum 110:136-41 Mr '59
Great order brings great freedom. il plans diags Arch Rec 125:94-9 Mid-My '59
Peaked roofs and colored glass enliven the woods. il plans Arch Rec 125:120-3 Mid-My '59
Unity for a flexible plan. il plan Arch Rec 125:132-5 Mid-My '59

Ohio

Residential design; open-plan interior merges with handsome site. il plan Prog Arch 40:106-9 Mr '59
Residential design; tri-nuclear scheme planned for a hillside, East Liverpool. il plan Prog Arch 40:97-101 Mr '59

Rhode Island

Time-honored means give a fresh tradition. il plans diag Arch Rec 125:144-9 Mid-My '59

Texas

Gardens afford private views. il plan diag Arch Rec 125:80-3 Mid-My '59
Privacy, spaciousness mark Texas house. il plans Arch Rec 125:193-6 F '59

Tropics

Three Caribbean houses. il plans Arch Rec 124:187-92 O '58

Virginia

Residential design; space skilfully disposed on three levels. il plans diags Prog Arch 40:124-7 Mr '59
Restful house for a restful site. il plans Arch Rec 125:178-9 Ap '59

Washington (state)

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Automobile factories
Automobile parts

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See also
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Gasoline

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Brakes, Airplane

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See also
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Bearings
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BRIDGES—Costs—*Continued*
Trusses skewed for Rhode Island bridge; unit prices. Eng N 162:58-9 My 28 '59
Two Virginia highway bridges; unit prices. Eng N 163:54 Ag 27 '59
Vicksburg, Miss. bypass; unit prices. Eng N 163:74+ Ag 13 '59

Erection
Big bridges prove big bargain over Missouri river in South Dakota; with statistics. il Eng N 162:38-42+ Ja 15 '59
Big derricks erect steel for Toledo bridge; Craig Memorial bridge. R. C. McDowell. il Civil Eng 28:902-4 D '58
Bolting blitz speeds Louisiana bridge erection. il Roads & Sts 101:45+ D '58
Building the world's highest arch span. F. J. Murphy. il map diags Civil Eng 29:86-9 F '59
Closing members are placed in long box-girder span. il Eng N 163:24 Ag 13 '59
Construction of the Columbia river (Portland-Vancouver) bridges. I. D. Merchant. il diags Am Soc C E Proc 85 [CO 2 no 2143]:37-50 S '59
Contractor erects bridge, then digs underpass; Edens expressway, Chicago. il Eng N 162:38-9 My 21 '59
Design and erection features of the vertical lift bridges for the St Lawrence seaway authority. W. G. H. Holt. il map plan diags Eng J 42:66-78 Ag '59
Designing economy into bridge erection. E. L. Durkee. il Civil Eng 29:250-4 Ap '59
Europe's longest suspension bridge; Tancarville bridge. A. W. Coutris. il diags Eng N 162:41-2+ My 14 '59
Experience with high-strength bolts in the Mackinac bridge. J. W. Kinney. il Am Soc C E Proc 85 [ST 3 no 1975]:133-44 Mr '59
How heavy girder was moved and set; Chicago's Northwest expressway. J. R. Cummings. il Roads & Sts 102:68-70+ S '59
Leapfrogging one bridge over another; Hathaway bridge across St Andrews bay, Fla. il diags Eng N 163:28+ Ag 27 '59
Mackinac bridge; superstructure design and construction. D. B. Steinman and C. H. Gronquist. il diags Civil Eng 29:16-21 Ja '59
Replacement of bridge at Mülheim. il Engineer 207:590 Ap 10 '59
Severin bridge at Cologne. il pl Engineer 208:280-1 S 18 '59
Steel closed on Mississippi River bridge; Iowa-Illinois memorial bridge. il Eng N 163:27 Ag 20 '59
See also
Bridges—Welding operations

Floors
Another wide deck pour; North-South expressway, Montreal, Canada. il Roads & Sts 102:94 O '59
Bridge deck forming uses lightweight structural steel members for temporary support of freshly placed concrete. il diag Am Concrete Inst J 30:sup 17-18 My '59
Good tooling ideas speed output of bridge grids. il Am Mach 103:114-15 Jl 13 '59
Light steel beams help do fast deck forming job. il diags Roads & Sts 102:78-9, 116 Ap '59
Lightweight concrete deck for Tappan Zee bridge main spans. W. G. Mullen. il Am Concrete Inst J 30:685-94 D '58
New deck is dealt off the bottom; George Washington bridge. il diags Eng N 162:24-5 Je 11 '59
Rubberized asphalt for old bridge deck. il Roads & Sts 101:128 S '58
Simple vibrating screeds popular for bridge decks and ramps. Roads & Sts 102:162-3 Ja '59
Wide-span vibrating unit finishes tollway bridge deck. il diag Roads & Sts 101:86-7 N '58

Foundations and piers
Big bridges prove big bargain over Missouri river in South Dakota; with statistics. il Eng N 162:38-42+ Ja 15 '59
Construction of foundations for Vernon Narrows bridge. R. J. McTavish, jr. il Eng J 42:73-6 Je '59
Cutting forming time for bridge piers; Northern Illinois toll road. P. Gordon. il Eng N 162:37-8 My 28 '59
Derricks lower cofferdam frame for Fort Duquesne bridge. il Roads & Sts 102:115 Ap '59
Design of pier bent and rigid frame by a computer. C. P. C. Tung. flow diags diags Am Soc C E Proc 84 [ST 7 no 1854]:1-17 N '58
Economies effected in the semiautomatic welding of piling. J. F. Gulley. il Welding J 38:887-8 S '59
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Faulty grillage felled Narrows bridge in Vancouver, B.C. il Eng N 161:24 O 9 '58
Geology of Mackinac straits in relation to Mackinac bridge. W. N. Melhorn. bibliog pl maps diags J Geol 67:403-16 Jl '59
Girder cast on ground and under-excavated; Chicago's Northwest expressway. il Roads & Sts 102:116-18 O '59
Old bridge steps up onto raised piers; Interstate bridge across Columbia river. A. J. Johannesen. il diag Eng N 163:38-40 Jl 30 '59
On the Trans-Canada highway electricity stabilizes bridge subsoil. R. W. Loughney and W. E. Hickey. il diag Eng N 162:41+ Ap 16 '59
Precast pile cap for a bridge; Spit bridge in Sydney. il Eng N 162:71 My 14 '59
Slim, trim piers avoid skew. il Eng N 163:73-4 Jl 16 '59
Texas tower to erect bridge across Venezuela's Lake Maracaibo. il Eng N 163:26 O 22 '59
Wrought-iron caps shield bridge piers; Castleton-on-Hudson bridge on New York state thruway. il Eng N 162:27 My 28 '59
See also
Caissons
Piles and pile driving

Lighting
Down-to-earth bridge lighting; Manahawkin Causeway bridge, New Jersey. D. J. Henderson. il Eng N 162:57 Je 4 '59
Lighted railings give continuous illumination on bridge roadway. il Pub Works 90:214 Ag '59
Low level fluorescent meets New Jersey test. il Roads & Sts 102:52 Ap '59
Mackinac bridge; approaches, toll plaza and electrical system. J. London and D. B. Steinman. il Civil Eng 29:26-8 Ja '59
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Load
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Location
See also
Bridges—Surveying

Maintenance and repair
Gasoline seared bridge gets plastic surgery. il Roads & Sts 102:83+ Je '59
Sixty-year-old bridge gets a new set of pins. M. J. Plumb. il Eng N 162:38-9 Mr 5 '59
See also
Bridges—Reconstruction

Model testing
Correlation of predicted and observed suspension bridge behavior. G. S. Vincent. Am Soc C E Proc 85 [ST 2 no 1944]:143-59 bibliog(p 157-9); Discussion. F. B. Farquharson. il 231-4 F '59

Moving
Dismantling old bridge over the Tugela river. il Engineer 207:971 Je 26 '59

BRIDGES—*Continued*

Painting

See Bridge painting

Raising

Old bridge steps up onto raised piers; Interstate bridge across Columbia river. A. J. Johannesen. il diag Eng N 163:38-40 Jl 30 '59

Raising the Kafue bridge. Engineer 207:623 Ap 17 '59

Unique seaway project; largest bridge raising job. il plan diags Roads & Sts 102:83-4+ F '59

Reconstruction

Bridge rebuilding doesn't stop traffic; Philadelphia's Broad street bridge. J. Gibson. il Eng N 162:47+ Ja 8 '59

Dynamiting did it where drop ball was out of bounds. W. F. Hallstead. il diag Roads & Sts 102:69-71 Je '59

Modifications to the Jacques Cartier bridge. R. B. Chamberlain. il diags Eng J 41:44-54 D '58

New steel backbone for an old concrete bridge; Washington Street viaduct, Atlanta. D. E. Stevens. il plan diag Civil Eng 29: 486-8 Jl '59

Standards

Standard plans for bridges. diags Pub Works 90:130-2 My '59

Stresses

See also
Bridges—Load

Surveying

Highway and bridge surveys; preliminary bridge surveys; progress report of the committee on highway and bridge surveys of the Surveying and mapping division. il maps Am Soc C E Proc 84 [SU 3 no 1842]: 1-28 N '58; Discussion. 85 [SU 1 no 2133]: 31-7 S '59

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Mackinac bridge; approaches, toll plaza and electrical system. J. London and D. B. Steinman. il Civil Eng 29:26-8 Ja '59

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Vibration

Golden Gate bridge vibration studies. G. S. Vincent. bibliog il map plan diags Am Soc C E Proc 84 [ST 6 no 1817]:1-40 O '58; Discussion. L. Balog. 85 [ST 7 no 2152]:39-42 S '59

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Economies effected in the semiautomatic welding of piling. J. F. Gulley. il Welding J 38:887-8 S '59

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Fabrication of welded highway girders. R. A. Wilson. il Welding J 38:111-17 F '59

First welded aluminum girder bridge spans Interstate highway in Iowa. N. L. Ashton. il diags Civil Eng 28:760-2 O '58

Hampton road all-welded steel arch bridge. W. L. Powell and others. il diags Welding J 38:317-25 Ap '59

Inspection and tests of welding of highway bridges. J. L. Beaton. il diags Am Soc C E Proc 84 [ST 8 no 1866]:1-24 D '58

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Rhode Island's Blackstone river spanned by state's first all-welded bridge. il Welding Eng 44:30-1 Jl '59

Submerged-arc builds California's first railroad bridge. il Welding Eng 44:37 F '59

Welded-steel transfer bridge for loading railroad-car floats. M. L. Koehler. il plan diags Welding J 38:860-4 S '59

Welding, aluminum, ancient principle, all used when erecting Reynolds-Baroni bridge. il Welding Eng 44:48-9 F '59

Widening

Problems in widening an arterial bridge under heavy traffic; B & O Railroad overcrossing, Washington. il Roads & Sts 102: 108-10 S '59

Africa, French West

Bridge at Abidjan. il diag Am Concrete Inst J 30:sup5-6 Je '59

Prestressed concrete units featured in Ivory Coast bridge. il diags Civil Eng 28:740-2 O '58

Canada

Novel cofferdam scheme saved money with batter piles. J. Zorzi. diags Roads & Sts 102:89-90+ O '59

China

Yangtze River bridge at Hankow, China. Y. S. T. E. Mao. il diags Civil Eng 28:910-13 D '58

France

Europe's longest suspension bridge; Tancarville bridge. A. W. Coutris. il diags Eng N 162:41-2+ My 14 '59

Tancarville, Europe's largest suspension bridge. il maps diag Engineering 188:92-3 Ag 28 '59

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Germany

Replacement of bridge at Mülheim. il Engineer 207:590 Ap 10 '59

Iowa

First welded aluminum girder bridge spans Interstate highway in Iowa. N. L. Ashton. il diags Civil Eng 28:760-2 O '58

Italy

Unusual bridges mark Highway of the sun. il Eng N 162:128-9 Mr 19 '59

New Mexico

New Mexico's bridge design trend. W. E. Strohm. il diags Roads & Sts 102:94+ F '59

New Zealand

Auckland harbour bridge. il Engineer 207: 892-3 Je 5 '59

Ontario

Construction of foundations for Vernon Narrows bridge. R. J. McTavish, jr. il Eng J 42:73-6 Je '59

Panama Canal Zone

Big Panama canal jobs coming; widening and high-level bridge. il Eng N 162:27 Ja 8 '59

Rhode Island

Rhode Island's Blackstone river spanned by state's first all-welded bridge. il Welding Eng 44:30-1 Jl '59

Scotland

Forth span won't be fourth longest for long; highway bridge across Scotland's Firth of Forth. Eng N 161:66 O 16 '58

South Africa

Aluminium alloy footbridge in Natal. il Engineer 207:314 F 20 '59

South Dakota

Big bridges prove big bargain over Missouri river in South Dakota; with statistics. il Eng N 162:38-42+ Ja 15 '59

BRIDGES (Instruments). See Electric instruments; Wheatstone bridge; Wien bridge

BRIDGES, Aluminum

Aluminium alloy footbridge in Natal. il Engineer 207:314 F 20 '59

Aluminum bridge designed to aircraft principles. il Roads & Sts 101:100 O '58

Aluminum girder bridge is dedicated. il Pub Works 89:104 N '58

Aluminum in new form for bridges. il Civil Eng 28:800 O '58

BRIDGES, Aluminum—*Continued*
Aluminum sheet forms thin-skinned bridges. il Arch Rec 125:180 Ja '59
Another aluminum highway bridge; Reynolds metals co. J. L. Reynolds. il Mod Metals 14:34+ Ja '59
Army engineers test welded aluminum bridge. il Roads & Sts 102:103 Ap '59
Army testing all-welded aluminum bridge trusses. il Welding Eng 44:67 Mr '59
Did you ever see a bridge flying? il Ind & Eng Chem 50:sup40A-2A O '58
Enter another aluminum bridge. il Eng N 161:25 O 16 '58
First welded aluminum girder bridge spans Interstate highway in Iowa. N. L. Ashton. il diags Civil Eng 28:760-2 O '58
Good design in an aluminum footbridge. il Mod Metals 14:56-7 Ja '59
Highway bridge of light-gauge aluminium cellular construction. il diags Engineer 207: 592-4 Ap 10 '59
Prototype aluminum bridge; Reynolds-Baroni bridge. il Pub Works 89:152 D '58
Prototype of tomorrow's highway bridge. il Mod Metals 14:66-7 S '58
Two new highway bridge designs use aluminum. il Materials in Design Eng 48:12+ D '58
Welding, aluminum, ancient principle, all used when erecting Reynolds-Baroni bridge. il Welding Eng 44:48-9 F '59

Testing

Aluminum bridge tested at New York university. il Civil Eng 28:960 D '58

BRIDGES, Arched
Building the world's highest arch span. F. J. Murphy. il map diags Civil Eng 29:86-9 F '59
Electronic computers used in design of two double-deck tied-arch bridges. J. C. L. Chang. il diag Civil Eng 28:850-3 N '58
First in bridge construction; double-deck, tied-arch bridge in Pittsburgh. il Eng N 162:28 Je 4 '59
Hampton road all-welded steel arch bridge. W. L. Powell and others. il diags Welding J 38:317-25 Ap '59
Over the Ohio; twin arches. il Eng N 162:24 Ja 8 '59
Spain saves some bridge money. il diags Eng N 161:45 O 9 '58
Spanning Glen canyon at 700 feet. il Eng N 161:34-6+, cover D 4 '58
Steel arch bridge goes up near Liverpool. il Eng N 163:54 Jl 2 '59
Trussed arch will span Indus. il Eng N 163:58 Ag 20 '59
Unique double-deck tied arch; Fort Pitt bridge across the Monongahela river at Pittsburgh. il diags Roads & Sts 101:76-7 N '58

BRIDGES, Bascule
Big derricks erect steel for Toledo bridge; Craig Memorial bridge. R. C. McDowell. il Civil Eng 28:902-4 D '58

BRIDGES, Cantilever
Bridge for growth in Corpus Christi. il map Eng N 162:44-5+ Ap 23 '59
Calumet Skyway toll bridge. R. C. Hamm. il map Civil Eng 29:162-3, cover Mr '59
Cantilever bridge to span Panama canal. il Civil Eng 28:958 D '58
Double cantilever bridge over the Carquinez strait in California. il maps plan diags Engineer 207:630-3, 669-71 Ap 17-24 '59
Modifications to the Jacques Cartier bridge. R. E. Chamberlain. il diags Eng J 41:44-54 D '58
Record cantilever bridge completed; Greater New Orleans bridge. il Eng N 161:26 O 16 '58

BRIDGES, Concrete
Bridge at Abidjan. il diag Am Concrete Inst J 30:sup5-6 Je '59
Colesberg bridge. il Engineer 208:16 Jl 10 '59
Contractor builds batch plant for subbing bridge pours. il Roads & Sts 102:130-130a S '59
Contractor erects bridge, then digs underpass; Edens expressway, Chicago. il Eng N 162:38-9 My 21 '59
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Eynsham bridge. il Engineer 206:737 N 7 '58
Flyover built into London road junction. il plan Engineering 188:314-15 O 9 '59
Ganged forming helped complete bridge on time; Tri-state Grant Street bridge, Gary, Ind. il Roads & Sts 102:82-3 Ag '59
Girder cast on ground and under-excavated; Chicago's Northwest expressway. il Roads & Sts 102:116-18 O '59
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Moscow bridge rolled to midstream, and floated onto foundations. il Eng N 161:61-2 D 11 '58
New Mexico's bridge design trend. W. E. Strohm. il diags Roads & Sts 102:94+ F '59
New steel backbone for an old concrete bridge; Washington Street viaduct, Atlanta. D. E. Stevens. il plan diags Civil Eng 29: 486-8 Jl '59
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Prestressed concrete units featured in Ivory Coast bridge. il diags Civil Eng 28:740-2 O '58
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Spain saves some bridge money. il diags Eng N 161:45 O 9 '58
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Thin arches carry Illinois toll road. R. J. McFarlin. il Civil Eng 29:534-5 Ag '59
Unusual bridges mark Highway of the sun. il Eng N 162:128-9 Mr 19 '59

BRIDGES, Floating
In Washington; floating bridge pontoons sink. il Eng N 162:25 Ja 8 '59
Island hopping in Puget sound; four bridges and connecting highways. map Eng N 161: 26 D 11 '58
New floater for Lake Washington. C. E. Andrew. il Eng N 162:30 F 19 '59
Sunken pontoon is salvaged with help of its original forms; Washington's Duwamish waterway. il Eng N 162:44-5 Je 18 '59

BRIDGES, Foot
Aluminium alloy footbridge in Natal. il Engineer 207:314 F 20 '59
Good design in an aluminum footbridge. il Mod Metals 14:56-7 Ja '59

BRIDGES, Iron and steel
Alloy steel cuts bridge weight; Cedar st. bridge, Chattanooga. il Eng N 161:26 N 6 '58
Brunel's contribution to bridge engineering. P. S. A. Berridge. il Engineering 187:538-40 Ap 24 '59
Contest produces ideas for tomorrow's bridges; Steel highway bridge design competition. il diags Eng N 163:30-2+ O 22 '59
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Most beautiful steel bridges of 1958. il Eng N 163:26-7 O 1 '59
Most beautiful steel bridges opened to traffic in 1957. il Civil Eng 28:882 N '58
Orthotropic plate design for steel bridges. R. Wolchuk. il diags Civil Eng 29:74-9 F '59
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Sixty-year-old bridge gets a new set of pins. M. J. Plumb. il Eng N 162:38-9 Mr. 5 '59
Spanning Glen canyon at 700 feet. il Eng N 161:34-6+, cover D 4 '58
Steel arch bridge goes up near Liverpool. il Eng N 163:54 Jl 2 '59
Yangtze River bridge at Hankow, China. Y. S. T. E. Mao. il diags Civil Eng 28:910-13 D '58

BRIDGES, Lift
Design and erection features of the vertical lift bridges for the St Lawrence seaway authority. W. G. H. Holt. il map plan diags Eng J 42:66-78 Ag '59

BRIDGES, Lift—*Continued*
How the world's longest vertical lift bridge will work; Arthur Kill at Elizabeth, N.J. A. Hedefine and T. R. Kuesel. il diags Eng N 162:38-40+ Je 11 '59
Kent gets a big lift bridge. il Eng N 163:57 Ag 20 '59
St Lawrence river development; lifting bridges. il pl Engineer 207:947-50 Je 19 '59
See also
Bridges, Bascule

BRIDGES, Pedestrian. See Bridges, Foot

BRIDGES, Portable
Hydraulics lets army carry its own bridges. W. R. Abell and J. K. Singleton, jr. il diag Ap Hydraulics & Pneumatics 11:106+ N '58

BRIDGES, Prefabricated
Burned bridge bypassed with 150-ft Bailey truss span. il Roads & Sts 102:86-7 Jl '59
82-ton prefabricated railway bridge. il Engineer 207:150 Ja 23 '59
Permanent bridge comes in kit; prepackaged timber and concrete bridge. il diags Eng N 161:49 O 9 '58

BRIDGES, Railroad
Brunel's contribution to bridge engineering. P. S. A. Berridge. il Engineering 187:538-40 Ap 24 '59
Dismantling old bridge over the Tugela river. il Engineer 207:971 Je 26 '59
82-ton prefabricated railway bridge. il Engineer 207:150 Ja 23 '59
Erected like this 100 years ago bridge still shows daring concept; railway crossing of Tamar river at Saltash, England. il Eng N 163:43-4 Jl 9 '59
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Novel cofferdam scheme saved money with batter piles. J. Zorzi. diags Roads & Sts 102:89-90+ O '59
Railway and highway relocation at Noxon rapids. G. R. Latham and W. G. Saville. il map diag Civil Eng 29:150-3 Mr '59
Rising water completes circuit, sounds flood alarm. il Eng N 161:58-9 O 16 '58
Sixty-year-old bridge gets a new set of pins. M. J. Plumb. il Eng N 162:38-9 Mr 5 '59
Submerged-arc builds California's first railroad bridge. il Welding Eng 44:37 F '59
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Welded-steel transfer bridge for loading railroad-car floats. M. L. Koehler. il plan diags Welding J 38:860-4 S '59
Yangtze River bridge at Hankow, China. Y. S. T. E. Mao. il diags Civil Eng 28:910-13 D '58

Costs
Wide underpass separates three-track crossing; unit prices. Eng N 162:145-6 My 14 '59

Reconstruction
Bethnal Green bridge reconstruction. il Engineer 207:497 Mr 27 '59

BRIDGES, Steel. See Bridges, Iron and steel

BRIDGES, Suspension
Correlation of predicted and observed suspension bridge behavior. G. S. Vincent. Am Soc C E Proc 85 [ST 2 no 1944]:143-59 bibliog(p 157-9); Discussion. F. B. Farquharson. il 231-4 F '59
Europe's longest suspension bridge; Tancarville bridge. A. W. Coutris. il diags Eng N 162:41-2+ My 14 '59
Experience with high-strength bolts in the Mackinac bridge. J. W. Kinney. il Am Soc C E Proc 85 [ST 3 no 1975]:133-44 Mr '59
Forth span won't be fourth longest for long; highway bridge across Scotland's Firth of Forth. Eng N 161:66 O 16 '58
Island hopping in Puget sound; four bridges and connecting highways. map Eng N 161: 26 D 11 '58
Mackinac bridge; approaches, toll plaza and electrical system. J. London and D. B. Steinman. il Civil Eng 29:26-8 Ja '59
Mackinac bridge; longest bridge cables ever constructed. W. B. Joyce and D. B. Steinman. il diags Civil Eng 29:22-5 Ja '59
Mackinac bridge; superstructure design and construction. D. B. Steinman and C. H. Gronquist. il diags Civil Eng 29:16-21 Ja '59
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Narrows span gets formal start. Eng N 163: 27 Ag 20 '59
New deck is dealt off the bottom; George Washington bridge. il diags Eng N 162:24-5 Je 11 '59
Severin bridge at Cologne. il pl Engineer 208:280-1 S 18 '59
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Six months to bridge the St Lawrence. il Eng N 161:24-5 D 11 '58
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Tancarville suspension bridge. il diags Engineer 208:82-6 Ag 14 '59

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BRIDGMAN, Michigan

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Brightness survey of two rooms using a photographic technique. M. N. Zeolla. il Illum Eng 53:537-42 O '58
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Doors
Earthquakes and building
Fireproof construction
Foundation soils
Foundations
Framing (building)
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Medical buildings
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Mine buildings
Municipal buildings
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Indicators and test papers
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Microanalysis
Mineralogical analysis
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Chlorides
Flue gas
Formaldehyde
Gasoline
Glass
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Bins
Bottles
Capsules
Closures (containers)
Food containers
Helium, Liquid—Storage
Hoppers
Milk containers
Package design
Package goods
Packing for shipment
Paper boxes
Paper containers
Trays (containers)
Tubes (containers)

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Governors (machinery)
Graphic panels
Hydraulic control
Level control
Machinery, Automatic
Magnetic control
Pneumatic control
Servomechanisms
Telemetering
Temperature—Regulation
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Air conditioning equipment
Airplane engines
Airplanes
Airplanes, Military
Atomic power plants
Blast furnaces
Boilers
Cranes, derricks, etc.
Crushing machinery
Digesters (paper making)
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Electric motors, Alternating current
Electric motors, Direct current
Electric plants (central stations)
Elevators
Gas burners
Gas turbines
Gear cutting machines
Guided missiles
Heat treatment shops
Helicopters
Hydroelectric plants
Lathes
Machine tools
Machinery
Magnetic instruments
Metallurgical plants
Milling machines
Multivibrators
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Open hearth furnaces
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Paper making machinery
Petroleum refineries
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Pumping machinery
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Rolling mills
Rubber factories
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Tarnishing of metals
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also subdivision Corrosion under special subjects, e.g.
Airplanes

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Continued
Aluminum
Automobiles
Boilers
Chemical plants
Condensers
Cooling towers
Copper
Gas turbines
Heat exchangers
Lead
Magnesium
Motor vehicles
Nickel
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Keep customers informed; product information for operational and maintenance data. il Diesel Power 36:31-2 D '58
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Electric motors
Electric motors, Alternating current
Electric motors, Direct current
Electric motors, Induction
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Electric transmission
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Hydroelectric power
Power factor
Radio apparatus—Power supply
Radio telephone—Power supply
Wind tunnels—Power supply

also subdivision Power under special subjects, e.g.

Aluminum works
Cement plants
Chemical plants
Coal mines and mining
Electrochemical industries
Metallurgical plants
Paper and pulp mills
Quarries and quarrying
Radio relay systems
Rolling mills
Steel works
Textile mills

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Spark gap
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Electric generators
Electric lines
Electric motors
Electric substations
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See also
Linemens equipment
Motor trucks in repair service

Exhibits

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Finance

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Two-way radio speeds stores handling. il Elec World 151:42-3 F 2 '59

Rates
See Electric rates

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New form aids ordering of material. M. A. Edwards. il Elec World 151:50 Je 1 '59
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No tax credits for preferred-stock redemption. Elec World 150:62 O 27 '58
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Service companies
See also
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Cut materials handling time 50 per cent in central storeroom. il Elec World 152:136-7 S 28 '59
Get and keep materials under control. Elec World 151:80+ Je 8 '59
Increase working storage; Ohio power co. il Elec World 151:140 Mr 30 '59
IBM accounting trims stock. W. S. Marks. il Elec World 151:55-6 My 4 '59

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Labor turnover
Medical service, Industrial
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Steel workers
Suggestion systems
Supervisory workers
Trade secrets
Wages
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Atomic power plants
Cement plants
Concrete plants
Electric plants (central stations)
Electric utilities
Food factories
Gas companies
Highway departments
Knitting mills
Oil companies
Paint shops
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Employees
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Employees benefit plans
Employees conferences
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Employment agencies
Labor turnover
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Electronics industry
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Electronics industry
Foundry machinery
Furniture industry and trade
Gas industry
Instruments
Machine tools
Machinery
Mining machinery
Motor buses
Motor cycles
Motor trucks
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Maintenance departments
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Control boards
Control charts
Efficiency, Industrial
Employees
Employment management
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Engineering departments
Factories—Cleaning
Factories—Maintenance and repair
Factory costs
Foremen
Hygiene, Industrial
Idleness, Industrial
Industrial engineering
Industrial management
Industrial relations
Inspection
Inventories
Janitors
Job work
Machine shop management
Machine works

FACTORY management—See also—*Continued*
Material handling
Mechanical handling
Office management
Organization in industry
Packing for shipment
Production
Purchasing
Quantities (in production)
Research departments
Safety devices and measures
Salvage (waste, etc.)
Schedules
Shipment of goods
Shipping departments
Spoilage
Standardization
Suggestion systems
Tool engineering
Tool rooms
Vacations
Visitors
also subdivision Management under special subjects, e.g.
Airplane factories
Chemical plants
Drug factories
Food factories
Guided missile factories
Hosiery mills
Knitting mills
Machine works
Metal working plants
Paint shops
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Rubber factories
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Material handling
Mechanical handling
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Trucks

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See also

Credit
Gold as money
Income
Inflation (finance)
Silver as money
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Airports
Building
Chemical industries
Electronics industry
Gas, Natural—Pipe lines
Gas companies
Local government
Medical service
Metal working industries
Oil companies
Petroleum industry and trade
Roads
Rubber industry and trade
Sewerage
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Waterworks

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Fire protection
Sprinkling systems

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Fire extinguishers
Fire service (water supply)
Sprinkling systems

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Detectors
Fire apparatus
Fire boats
Fire escapes
Fire extinction
Fire extinguishers
Fire service (water supply)
Fireproof construction
Fireproofing of textiles
Inflammable liquids
Inflammable mixtures
Sprinkling systems
also subdivision Fires and fire protection under special subjects, e.g.
Aeronautic laboratories
Air preheaters
Airports
Chemical plants
Coal mines and mining
Department stores
Guided missile bases
Oil tanks
Petroleum industry and trade
Petroleum pipe lines—Pumping stations
Power plants
Railroads
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School buildings
Steel works
Welding shops

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Gunite
Paint, Fire resisting
Plastics—Fire resistance
Refractory materials
Shingles, Asbestos
Silicones

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See also

Sprinkling systems

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See also

Guns
Pistols
Rifles

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Department stores—Fires and fire protection
Fire extinction
Fire protection
Flames
Forest fires
Inflammable liquids
Inflammable mixtures
Oil fires
Photography of fires
Railroads—Fires and fire protection
Spontaneous combustion

FIRING

See also

Boilers—Firing
Boilers—Wood firing
Fuel
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Open hearth furnaces—Firing

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GASES—See also—*Continued*
Helium
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Drug trade
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Floods
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See Guided missiles—Recovery

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GULF Coast region
See also
Chemical industries—Gulf Coast region
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Docks

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Terminals

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Charleston, South Carolina

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IRAQ

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Scientific education—Israel

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Aeronautic research
Atomic power plants
Automobile industry and trade
Bridges
Chemical industries
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Photometry
Stage lighting
Street lighting
Tunnel lighting
also subdivision Lighting under special subjects, e.g.
Aeronautic instruments
Airplane factories
Airplanes
Airport buildings
Airports
Albany, New York
Auditoriums
Automobile sales buildings
Bank buildings
Barber shop
Beauty shops
Bridges
Capitols
Churches
College buildings
Dining rooms
Electric plants (central stations)
Factories
Food stores
Fountains
Gardens
Gasoline service stations
Golf links. Miniature
Gymnasiums
Hotels
Living rooms
Lobbies (architecture)
Machine shops
Macon, Georgia
Mens stores
Moving picture photography
Museums
Newark, New Jersey
Parks
Photography
Plastic murals
Public buildings
Race tracks
Restaurants
Roads
School buildings
Ships
Shoe stores
Shopping centers
Showrooms
Stadiums
Stock exchange buildings
Store buildings
Synagogs
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Automobile engines
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Bearings
Bearings, Roller
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Compressors
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Gas compressors
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Tool engineering

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Forging
Foundry practice
Gages
Gear cutting
Grinding
Grinding machines
Grooving
Hard facing
Indexing (machine work)
Inspection
Lapping
Lathes
Machine tools
Machinery
Metal cutting
Milling
Pantograph
Pattern making
Riveting
Sheet metal work
Stamping
Steel works
Thread cutting
Tolerance
Turning
Welding
also subdivision Manufacture under special subjects, e.g.
Automobile engines
Axles
Bearings
Bearings, Roller
Bombs, Aerial
Cams
Carburetors
Crankshafts
Cylinders (engines, etc.)
Diesel engines
Electric motors
Gas turbines, Aircraft
Gearing
Guided missiles
Guns (ordnance)
Gyroscope
Keys and keyways (machinery)
Lawn mowers
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Office appliances
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Bending machines
Broaches
Broaching machines
Chucking machines
Cutting machines
Cutting tools
Drilling and boring machinery
Gear cutting machines
Grinding machines
Honing machines
Lapping machines
Lathes
Machine shop practice

MACHINE tools—See also—*Continued*
Metal cutting
Metal work
Milling cutters
Milling machines
Planing machines
Pneumatic tools
Polishing machines
Presses
Profiling machines
Punching machinery
Reamers
Saws, Metal working
Screw machines
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Jigs
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Clamps
Clutches
Coal mining machinery
Conveying machinery
Couplings
Cranes, derricks, etc.
Crankshafts
Crushing machinery
Cutting machines
Cutting off machines
Die casting machines
Dyeing machines
Electric machinery
Electric welding machines
Engineering
Excavating machinery
Fans, Mechanical
Filling machines
Fits (machinery)
Food machinery
Forging machinery
Foundry machinery
Friction
Gear cutting machines
Governors (machinery)
Grinding machines
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Inventions
Jacks
Jigs
Keys and keyways (machinery)
Knitting machines
Labeling machines
Lathes
Looms
Lubrication and lubricants
Machine shop practice
Machine tools
Marking machines
Mechanical handling
Metal working machinery
Milling machines
Mining machinery
Molding machines
Packaging machinery
Packing
Paper cutting machines
Paper making machinery
Pattern making
Paving machines
Pins, Machinery
Planing machines
Plating machinery
Pneumatic hammers
Pneumatic machinery
Polishing machines
Power transmission
Presses
Printing machinery
Printing presses
Profiling machines
Pulleys
Pumping machinery
Pumps
Refrigeration and refrigerating machinery
Riveting machines
Road making machinery
Rollers
Screw machines
Screwdriving machines
Sewing machines
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Shafts
Shapers
Spinning machinery
Springs (mechanism)
Steam turbines
Testing machines
Textile machinery
Threading machines
Time study (of machinery)
Tractors
Trenching machinery
Turbines
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Machinery, Kinematics of

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Transfer mechanisms
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Electric trucks, Industrial
Gravel handling
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Hoisting
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Lifting magnets
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Loading machines
Mail handling
Manipulators
Material handling equipment distributors association
Mine haulage
Mine hoisting
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MECHANICAL rubber goods. See Rubber goods, Mechanical

MECHANICAL stokers. See Stokers, Mechanical

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MECHANICS
See also
Deformation (mechanics)
Dynamics
Engineering
Factor of safety
Fluids
Force and energy
Friction
Hydrodynamics
Hydromechanics
Hydrostatics
Hysteresis (mechanics)
Inertia (mechanics)
Liquids
Load (mechanics)

MECHANICS—See also—Continued
Machinery
Mathematical physics
Mechanical movements
Moments of inertia
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Cleaning
Cleaning compositions
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Broaching
Cutting machines
Cutting off machines
Cutting tools
Cutting tools, Carbide
Cutting tools, Ceramic
Drilling and boring (metal working, etc.)
Electric cutting
Electrochemical cutting
Gear cutting
Grooving
Lubrication and lubricants (cutting and grinding)
Machine tools
Milling
Milling cutters
Oxyacetylene cutting
Oxygen cutting
Pipe cutting
Saws, Metal working
Screw machines
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Abrasive belts
Grinding
Honing
Institute of metal finishing
Lacquer and lacquering
Lapping
Peening
Planing
Polishing
Polishing, Electrolytic
Shot blasting

METAL finishing—See also—*Continued*
Shot peening
Steel cutting
Surfaces
Tumbling barrels
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Aluminum
Magnesium
Steel
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Furnaces, Metallurgical
Germanium metallurgy
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Hydrometallurgy
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Metallography
Metallurgical laboratories
Metallurgical plants
Metallurgical research
Metals
Niobium metallurgy
Ore treatment

METALLURGY—See also—*Continued*
Pickling (metals)
Refractory materials
Sintering
Smelting
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Chromium
Cobalt
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Corrosion and anti-corrosives
Deformation (mechanics)
Electrodeposition of metals
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Electrons—Emission from metals
Etching (metals)
Fatigue in metals
Films, Metallic
Gallium
Germanium
Glass—Joining to metal
Gold
Hardness
Heat treatment

METALS—See also—*Continued*
Intermetallic compounds
Ions—Emission from metals
Iron
Lead
Lithium
Manganese
Metallography
Mineralogy
Mines and mineral resources
Nickel
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Garnet
Holmquistite
Kyanite
Magnetite
Mica
Mineralogy
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Pegmatites
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- Structural engineering—Model testing

also subdivision Models under special subjects, e.g.
- Airplane wings
- Atomic power plants
- Atoms
- Buildings
- Calculating machines
- Dust collectors
- Kitchens
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Fuel
Gas, Natural
Peat
Raw materials
Water supply

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Petroleum
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Architecture, Domestic
Electric lines
Electric utilities
Electricity supply
Gas, Natural
Geology

NEW YORK (state)—See also—*Continued*
Hydroelectric plants
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Crystal diodes
Electric machinery
Electric motors
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Electric resistors
Electric transformers
Electronic apparatus and instruments
Fans, Mechanical
Foundry machinery
Gas burners
Gas turbines, Aircraft
Guided missiles
Heat exchangers
Helicopters
High fidelity sound systems
Hospitals
Internal combustion engines
Lawn mowers
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Motor cycles
Motor vehicles
Moving picture machines
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Oscillators
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Periscope
Photometers
Polarizers
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Reflectometers
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Light
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Photoelasticity
Photometry
Polarization (light)
Radiation
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Sintering
Smelting
Tailings

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Pigments
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Future is bright for foreman finishers. K. MacKenzie. Ind Finishing 35:66+ Je '59
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Equipment
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Management

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PAINTING
See also
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Automobiles
Electric transformers
Factories
Guided missiles
Kitchen cabinets
Masonry
Textile mills
Tractors
Waterworks

PAKISTAN
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Electronics
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PORTABLE electric welding machines. See Electric welding machines, Portable
PORTABLE grinding machines. See Grinding machines, Portable
PORTABLE pneumatic tools. See Pneumatic tools, Portable
PORTABLE power plants. See Power plants, Portable
PORTABLE pumping machinery. See Pumping machinery, Portable
PORTABLE radio stations. See Radio stations, Portable
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Steam
Wind power
also subdivision Power under special subjects, e.g.
Aluminum works
Automobile factories
Cement plants
Chemical plants
Coal mines and mining
Forge shops
Metallurgical plants
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Gas companies—Appliance selling

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Inventories
Invoices
Microfilm records
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Production control
Punched card system
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Accidents, Industrial
Electric contractors
Factories
Gas companies
Highway engineering
Maintenance departments
Municipal departments
Plumbing shops
Public works departments
Textile laboratories
Tool rooms

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Combustion research
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Electric research
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RESEARCH—See also—*Continued*
Foundations, Charitable and educational
Foundry research
Gas research
Glass research
Government research
Heating research
Highway research
Industrial research
Lighting research
Lubrication research
Metallurgical research
Military research
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See Traffic lines

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Versatile unit for widening roads. il Eng N 162:139 Je 18 '59
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Modern road construction in West-European countries. H. Kunde. il Roads & Sts 102: 106-7+ Ag '59

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Mont Blanc tunnel will be the world's longest shortcut. il map diag Eng N 162:30-2+, cover Mr 26 '59

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Worst is almost over on the Long Island expressway. il map Eng N 161:52-4 N 13 '58

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Montreal-Laurentian autoroute. Eng J 41:86 N '58

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Russia ups highway goals in new seven-year plan. Eng N 162:53 F 12 '59

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500-mile wilderness road in Saskatchewan. il map Roads & Sts 102:96+ Je '59

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Rock, muck, dirt; scrapers and dozers moved it all; Tennessee road relocation job. il diag Roads & Sts 101:49-52 S '58

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Granite
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Shale

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Atlanta
Aurora, Illinois
Austin, Texas
Boise, Idaho
Camden, New Jersey
Chicago
Cincinnati
Columbus, Ohio
Detroit
Durham, North Carolina
Edmonds, Washington
Hampton Roads, Virginia
Jackson, Michigan
Jacksonville, Florida
Los Angeles
Mexico (city)
Middletown, Ohio
Milwaukee
Minneapolis
New York (city)
Panama City, Florida
Pittsburgh
Racine, Wisconsin
St Paul
San Antonio
San Diego
San Jose, California
Spokane, Washington
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Mica
Mullite
Narsarsukite
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Annual meeting, Detroit, Jan. 12-16. Am Mach 103:96-7 Ja 26 '59

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Awards certificates of appreciation to 18 engineers. S A E J 67:108-9 F '59

Better technical papers for SAE. L. Withrow. S A E J 67:82-4 Mr '59

Constitutional amendments growing out of planning for progress proposal. S A E J 66: 85-92 N '58

Eleven aero querries on PFP get answers from J. H. Famme. S A E J 66:92-3 D '58

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In 1958, SAE made and planned for progress. S A E J 67:83-7+ Ja '59

International West Coast meeting, 2d, Vancouver, B.C.; Aug. 10-13; abstracts of papers. S A E J 67:90-4 O '59

Isbrandt appointed chairman of 1959 technical board; seven new members start three-year term. S A E J 67:106-7 F '59

Membership approves amendments to constitution. S A E J 67:99 My '59

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National farm, construction and industrial machinery meeting, Milwaukee, Sept. 8-11. Automotive Ind 119:67+ O 15 '58; S A E J 66:88-91 O '58

National fuels and lubricants meeting, Tulsa, Nov. 5-6; with abstracts of papers. S A E J 66:84-7 D '58

National passenger car and production meeting, Detroit, March 16-20; with abstracts of papers. Automotive Ind 120:38-9+ Ap 15 '59

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SAE section officers, 1958-1959. S A E J 66: 99-101 S '58

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Annual meeting, Canada, Sept. 11-18. Chem & Ind p 1704-15 D 27 '58

Annual report of the council, 78th, with the accounts for the year ended Dec. 31, 1958. Chem & Ind p821-47 Je 27 '59

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Overseas section meeting, Frankfurt-on-Main, June 10-13. Chem & Ind p 1040-1 Ag 15 '59

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Second European tour. M. G. DeNavarre. Am Perfumer & Aromatics 72:32-4+ N '58; 73: 44-7 Ja '59

Semiannual technical meeting, 14th, New York, May 7; abstracts of papers. Am Perfumer & Aromatics 73:54+ Je '59; Drug & Cosmetic Ind 84:728-9+ Je '59; Soap & Chem Spec 35:58-60 Je '59

Seminar, 5th, New York, Oct. 8-9. Drug & Cosmetic Ind 83:588-9+ N '58

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Chromium
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Alums, Liquid
Amplifiers
Assembling machines
Automobiles
Boilers
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See Steel—Metallography

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See Case hardening—Nitriding process

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Apples
Bushings, Insulating
Chemicals
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Cottonseed
Cottonseed oil
Fish as food
Food, Frozen
Fruit
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Automobile lamps
Automobile parts
Axles
Beams and girders
Brazing
Bronze
Building materials
Cams
Cast iron
Castings
Ceramic materials
Chromium plating
Columns, Concrete
Columns, Steel
Compressors
Concrete
Concrete blocks
Copper
Copper plating
Corrosion and anti-corrosives
Corrosion resisting materials
Cotton fibers
Cutting tools
Dust collectors
Electric apparatus and appliances
Electric cables
Electric equipment
Electric lamps, Mercury vapor
Electric lines
Electric resistors
Electric substations
Electric transformers
Electric welding
Enamel and enameling
Finishing materials
Foundation soils
Gages
Gas meters
Gas turbines, Aircraft
Glass
Governors (machinery)
Guided missiles
Hardness
Heat resisting materials
Internal combustion engines
Iron
Iron alloys
Joints
Lubricating greases
Magnetic materials
Materials
Metal protection
Metals
Milk
Mortar
Nickel
Nickel plating
Nuclear reactors
Paint
Paper
Paper, Laminated
Petroleum products
Plastics
Polyethylene
Polymers

TESTING—See also—*Continued*
Pumps
Pumps, Centrifugal
Refractory materials
Refrigeration and refrigerating machinery
Rubber
Rubber, Artificial
Sealing compositions
Ship plates
Springs (mechanism)
Steel, Stainless
Steel castings
Television antennas
Television receiving apparatus
Thread
Titanium
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Air raid shelters
Apartment houses
Atomic research laboratories
Barns and stables
Churches
Dining rooms
Electric plants (central stations)
Factories
Foundries
Greenhouses
Gymnasiums
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Bridges
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Electronic apparatus and instruments
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Filtration plants
Fire service (water supply)
Hot water supply
Pumping stations
Reservoir
Water, Underground
Water collectors
Water conservation
Water consumption
Water distribution
Water districts
Water purification
Water storage
Water supply engineering
Water tanks
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Waterworks
Wells
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Akron, Ohio
Amsterdam, Netherlands
Athens, Ohio
Austin, Texas
Baltimore
Bethlehem, Pennsylvania
Bloomington, Illinois
Bridgeport, Connecticut
Bridgman, Michigan
Caracas, Venezuela
Chicago
Cleveland
Cleveland, Tennessee
Coalinga, California
Dallas, Texas
Denver
Detroit
East Tawas, Michigan
Eau Claire, Wisconsin
Fort Lauderdale, Florida
Gary, Indiana
Glasgow
Highland Park, Michigan
Holland, Michigan
Hull, England
Indian Hill, Ohio
Iron Mountain, Michigan
Lafayette, Indiana
Lake Charles, Louisiana
Lancaster, Pennsylvania
Lincoln, Illinois
London
Los Angeles
Michigan City, Michigan
Middletown, New York
Narragansett, Rhode Island
New Castle, Indiana
New York (city)
Newark, New Jersey
Newport Beach, California
Oak Park, Michigan
Oakland, California
Oklahoma City
Ossining, New York
Philadelphia
Pittsburg, Kansas
Point Barrow, Alaska
Portland, Oregon
Rahway, New Jersey
Rockford, Illinois
St Louis
St Paul, Minnesota
St Romuald, Quebec
Salt Lake City
San Diego, California
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